



REGISTERED AS A NEWSPAPER.

PUBLISHED WEEKLY AT 42 CANNON ST., LONDON, E.C.4.

SUBSCRIPTION, WITH
DIARY 20/- PER ANNUM
SINGLE COPIES 9d

TELEPHONE: CENTRAL 3617
TELEGRAMS: "CHEMICUS,
CANNON, LONDON" (2 Words)

No. 2235.

NOVEMBER 25, 1922.

Vol. XCVII.

"Torch" Brand Preparations

A Series of Medicinal and Toilet Preparations of the highest quality of British origin & manufacture.

ON THE P.A.T.A.

On and after December 1 the following revised prices of "Torch" Brand preparations will come into force:—

Bark and Phosphorus Tonic Bottles, 1/6 retail, 10/- doz.	Malt Extract ½, 1, 2, 4, 7 lb., 1/7, 1/6, 2/9, 5/3, 9/- retail, 7/9, 11/9, 21/-, 39/6, 66/6 doz.
Brilliantine, Solidified Tins, 1/3 retail, 10/- doz.	Malt and Oil (15%) ½, 1, 2, 4, 7 lbs., 1/1, 1/7, 2/11, 5/6, 9/6 retail, 8/-, 12/3, 22/-, 41/6, 70/- doz.
Cascara, Glycerinated 2 oz., 4 oz., 1/-, 1/9 retail, 7/6, 12/6 doz.	Nasal Balm Enamelled Tubes, 1/- retail, 6/6 doz.
Chemical Food (Fruit Flavoured) 4 oz., 8 oz., 16 oz., 1/-, 1/9, 3/- retail, 7/6, 12/6, 21/- doz.	Perfumes Concentrated 19 glass tubes (1 doz. show outers) 14/- doz. 3 - " " (½ doz. " ") 24/- doz.
Coconut Oil Shampoo Bottles, 1/6 retail, 11/- doz.	Petroleum Emulsion 4 oz., 8 oz., 16 oz., 1/3, 2/-, 3/6 retail, 9/-, 13/6, 24/- doz.
Cod-Liver Oil 4 oz., 8 oz., 16 oz., 1/-, 1/6, 2/6 retail, 6/9, 9/-, 15/6 doz.	Saline, Effervescent Bottles, 1/6 retail, 11/6 doz.
Cod-Liver Oil Emulsion 4 oz., 8 oz., 16 oz., 1/3, 2/-, 3/6 retail, 9/-, 13/6, 24/- doz.	Sugar of Milk ½ lb., ½ lb., 1 lb., 1/-, 1/9, 3/- retail, 7/3, 12/-, 22/- doz.
Embrocation, Universal 3 oz., 8 oz. (cartoned), 1/3, 2/- retail, 9/-, 15/- doz.	Syrup of Figs, Compound 3 oz., 6 oz. (cartoned), 1/3, 2/3 retail, 9/-, 15/- doz.
Glycerin of Thymol Compound 3½ oz., 8 oz., 1/-, 1/9 retail, 7/-, 11/6 doz.	Syrup of Hypophosphites Comp. 4 oz., 8 oz. (cartoned), 1/6, 2/6 retail, 11/6, 19/- doz.
Hair Tonic Sprinkler Bottles, 6 oz., 2/6 retail, 18/- doz.	Warming Liniment 4 oz. (cartoned), 1/6 retail, 11/6 doz.
Liver Saline 8 oz., 1/9 retail, 12/6 doz.	

COMPLETE LIST ON APPLICATION.

"Torch" Brand Products are subject to 5% off invoice to the Retail Trade on all direct orders to the value of £10 and upwards in one consignment, exclusive of the cost of packages. "Torch" Brand Malt Extract and Malt and Oil is not included in this arrangement.

Allen & Hanbury's Ltd.



Bethnal Green, London, E.

DURING THE FOOTBALL SEASON

the Pharmacist should be prepared for the business to be done with a well displayed stock of reliable embrocation.

HOUSEHOLD EMBROCATION (WHITE OILS).

We offer a thick, creamy and stable emulsion of fresh eggs, oil of turpentine, acetic acid and methyl-salicylate. It is

PHARMACEUTICALLY PERFECT

and may be relied upon to give satisfaction for its many uses:—

To ATHLETES in training - - - To counteract stiffness of muscles and joints.

In the SPORTS FIELD and GYMNASIUM For Sprains and Bruises

In the HOUSEHOLD - - - For use in emergency wherever there is pain (rheumatism, neuralgia, sore throat, chest cold, etc.)

Supplied in 3 oz. and 6 oz. plug stoppered bottles, with a varied choice of labels and cartons.

Price, 3 oz. size - - - **7/-** per dozen

6 oz. size - - - **9/9** „

Also in bulk at **2/-** per lb.; Winchester quarts, **1/9** per lb.

Labels are specially printed for those desiring particular wording or title; alternatively, customers may supply their own labels.

WRIGHT, LAYMAN & UMNEY, Ltd.
SOUTHWARK, LONDON, S.E.1

Were you ever as busy as a bee ?

A red clover blossom contains less than one-eighth of a grain of sugar.

Seven thousand grains are required to make a pound of honey.

A Vagabond bee seeking everywhere for sweetness must obtain this material from fifty-six thousand clover heads.

Moreover, the bee is compelled to insert its proboscis separately into each floret or flower tube, and there are about sixty of these to each clover head.

The bee, in performing that operation sixty times fifty-six thousand, gets only enough nectar for 1 lb. of honey.

And then doesn't get the honey.

It is time for some of us to learn what work really is.

(— Ford Times.)

The
" Wigglesworth Way " puts the " BUSY " in your business.

Two new lines:

Honey Cough Balsam
(for Children).

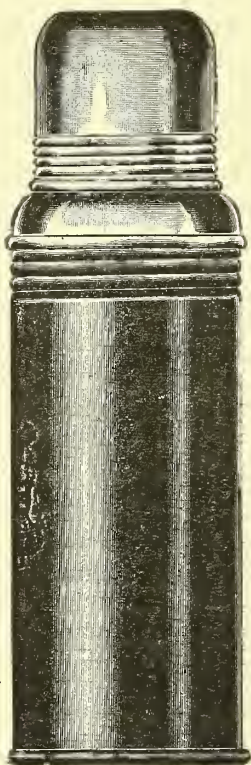
Fever Cure

Retail, 10½d.

WIGGLESWORTH, LTD.
WESTHOUGHTON
LANCS.

O W

OUT

DOUBLE TESTEDGUARANTEEDVACUUM

BLACK JAPANNED.

BLACK JAPANNED BODY
ALUMINIUM SHOULDER AND LARGE CUP
PINT SIZE

100 LOTS

12/-

PER DOZEN
NETT.300 LOTS

11/3

PER DOZEN
NETT.

QUART SIZE

50 LOTS

30/-

PER DOZEN NETT.

100 LOTS

27/-

" "

300 LOTS

24/-

" "

OWTAZIN COMPANY

JOHN TOLMIE, PHARMACIST

IMPORT AND EXPORT MERCHANTS

50/51 FORE STREET
LONDON, E.C. 2

Telephone :
LONDON WALL : 5482 (allotted)

Telegrams :
"OWTAZINIFY, AVE, LONDON"

Cable Address :
"OWTAZINIFY, LONDON."

Code : WESTERN UNION
UNIVERSAL EDITOR

ZIN

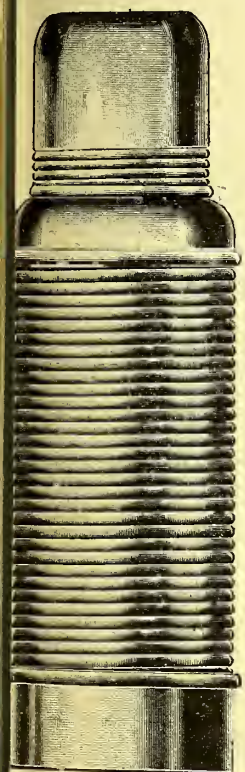
REGISTERED

IN

DOUBLE TESTED

FLASKS

GUARANTEED



ALUMINIUM.

SUPERIOR QUALITY

DRAWN ALUMINIUM
CORRUGATED TUBE

CASES WITH LARGE CUP

100 LOTS **2/1** EACH NETT

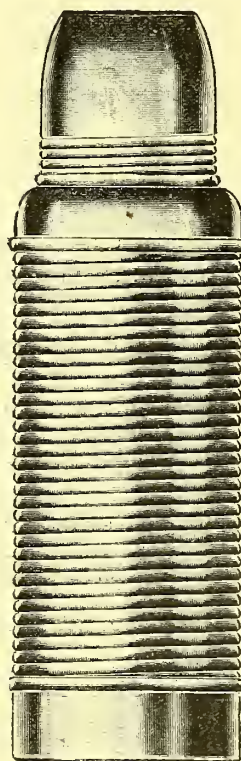
300 LOTS **1/10** " "

DRAWN BRASS
CORRUGATED TUBE

CASES HEAVILY NICKEL PLATED
WITH LARGE CUP

100 LOTS **3/-** EACH NETT

300 LOTS **2/9** " "



NICKEL PLATED.

IMMEDIATE DELIVERY FROM STOCK.

TERMS : CASES FREE. FREE DELIVERED.
CASH WITH ORDER.

CREDIT ACCOUNTS OPENED ON APPROVED REFERENCES.

"STAFFALLENS"

Telephone—
CLERKENWELL 2100 (4 lines)

Codes—
BENTLEY'S; LIEBER'S;
A B C, 5th EDITION,



Telegraphic Address—
"STAFALENS,
FINSQUARE,
LONDON."

DISTIL

ESSENTIAL OILS FROM ENGLISH HERBS AND FLOWERS—PEPPERMINT, DILL, CHAMOMILE, LAVENDER, ROSEMARY
ESSENTIAL OILS FROM FOREIGN DRUGS AND SPICES—CORIANDER, CARDAMOM, CLOVE, PATCHOULI, NUTMEG, GARLIC, PIMENTO, JUNIPER, VETIVERT
AROMATIC WATERS—ELDERFLOWER, CINNAMON, DILL, ROSE

RECTIFY

ENGLISH AND FOREIGN ESSENTIAL OILS—PEPPERMINT, CARRAWAY

IMPORT

FOREIGN ESSENTIAL OILS AND DRUGS AND SPICES—LEMON, BERGAMOT, ORANGE, CASSIA, OTTO OF ROSE, EUCALYPTUS, STAR ANISE, THYME, CITRONELLA, GERANIUM, SPIKE LAVENDER, WINTERGREEN, GENTIAN, CASCARA, SCAMMONY, TRAGACANTH, NUX VOMICA, CINCHONA, RHUBARB, INDIAN HEMP, JALAP, SENNA, IPECACUANHA, ERGOT, GINGER, COCA, OPIUM, ACACIA, PEPPER

MAKE

ODOROUS AND MEDICINAL PRODUCTS FROM VOLATILE OILS—ANETHOL, EUGENOL, GERANIOL, CITRAL, THYMOL
PERFUMERS' RAW MATERIALS AND COMPOUNDS—ROSE SIMILE, JASMIN SIMILE, NEROLI SIMILE, CONCRETE ORRIS, SASORABIA, TREFLE

GROW

ENGLISH MEDICINAL & PERFUME PLANTS & FLOWERS—DIGITALIS, CHAMOMILE, ACONITE, HENBANE, DILL, COLCHICUM, BELLADONNA, LAVENDER, RHUBARB, TARAXACUM, PEPPERMINT, VALERIAN

EXPRESS

MEDICINAL FIXED OILS—ALMONDS, STAVESACRE, APRICOT KERNEL, CROTON, NUTMEG

GRIND

PURE DRUGS AND SPICES—RHUBARB, ACACIA, JALAP, TRAGACANTH, SENNA, IPECACUANHA, LIQUORICE, PEPPER, GINGER, NUTMEG, CINNAMON

EXTRACT

ENGLISH HERBS AND FOREIGN DRUGS—BELLADONNA, ERGOT, HYOSCYAMUS, NUX VOMICA, OPIUM, QUASSIA, GENTIAN
RESINS—PODOPHYLLIN, JALAP, SCAMMONY
OLEO-RESINS—GINGER, CAPSICUM, CUBEBS, PEPPER

MANUFACTURE

PRESERVED JUICES & CONFECTIONS, OINTMENTS, PILLS & PLASTERS TO FORMULÆ OF ALL PHARMACOPŒIAS

COMPOUND

TINCTURES, LIQUID EXTRACTS, LINIMENTS, ESSENCES, SPIRITS AND CONCENTRATED WATERS TO ALL OFFICIAL REQUIREMENTS, OR IN ACCORDANCE WITH CUSTOMERS' PRIVATE FORMULÆ

EXPORT UNDER BOND

PERFUME AND MEDICINAL SPIRITUOUS PREPARATIONS TO ALL PORTS

AGENTS

INDIA & FAR EAST	TYLER BROS. (EASTERN) LTD., 180, LOWER CIRCULAR ROAD, CALCUTTA
FRANCE	RENE FORESTEAU, 7, RUE DE TRACY, PARIS
JAPAN	HAMAGUCHI TRADING CO., P.O. BOX 1 NIIHONBASHI TOKYO
U.S.A.	UNGERER & CO., INC., 124 WEST 19TH STREET, NEW YORK
AUSTRIA	SLADE, ALLAN & CO., G.P.O. BOX 1540, SYDNEY
SPAIN	J. J. B. WALDRON, SITGES, (BARCELONA)
ARGENTINE	T. G. STEED, CALLE SARMIENTO 459, BUENOS AIRES
HOLLAND	L. F. MINARIK, KEIZERSGRACHT 164, AMSTERDAM
WEST INDIES	T. GEDDES GRANT, LTD., 9/11 BROADWAY, PORT-OF-SPAIN, TRINIDAD
ITALY	LA DITTA FRANCESCO FERRERIO, VIA MELZO 16, MILAN

STAFFORD ALLEN & SONS, Limited

Herb Farms & Distillery—
Long Melford, Suffolk

Head Office & Mills—
Cowper St., Finsbury, E.C.2

Export Warehouse—
Ardleigh Green, Essex

INDEX TO ADVERTISERS

Addis, R., & Son (Brushes)	38	Cartwright, W. B., Ld. (Ginger Wine Essence, &c.)	43	Ford, T. H., Ld. (Pneumonia Jackets)	xxxiv
Allen & Hanburys, Ld. (Torch Brand Preps.)	Cover	Castle Huskisson, Ld. (Tablets, &c.)	ii	Forhans (Dentifrice)	42
Allen, Stafford & Sons, Ld. (Essential Oils, &c.)	4	Cavendish Chemical Corporation	xxli	Fougera, E., & Co., Inc. (Medicinal Preps.)	xiv
American Drug Supply Co., Ld. (Dietri Maltose)	xxii	Chesebrough Manfg. Co. (Consd.) (Vaseline)	53	Frankenberg, L. (Razors, &c.)	28
Anglo-American Oil Co., Ld. (Liquid Paraffin)	32	Chemical Works Roermond (Essential Oils)	20	Freeman, John (Hairbrushes)	41
Anglo-French Drug Co., Ld.	xvi	Christy, T., & Co., Ld. (Novelties, Grips Pastilles, &c.)	56-xxi-xxvi	Frost, A. B., & Co. (Chest Protec- tors, &c.)	xxxvii
Arcois, Ld. (Russian Crude Drugs) ..	xlii	Church, G., & Co., Ld. (Waxed Papers, &c.)	xliv	Galloway, P. H., Ld. (Cough Syrup) ..	xxiii
Arnfield, J. C., & Sons, Ld. (Drugs) ..	iv	Corrugated Packing Materials Co., Ld. (Corrugated Paper, &c.)	38	Garratt, J. E. (Newskin)	7
Association of Manfg. Chemists		County Chemical Co., Ld. ("Quikko" Metal Polish)	xl	George, E. J. (Stocktaking) .. Col. Supp.	
Austin, J., Ld. (Cardboard Boxes) ..	xxvi	Culmak Shaving Brushes	40	Glewo (Food)	xxxix
Ayrton-Graham, Ld. (Shopfittings) ..	xlii	Curasol Sock Co. (Sulphur Socks) ..	xxxvi	Glew, F., Harrisou (Radium Com- pound)	Col. Supp.
Ayrton, Saunders & Co., Ld. (Whole- sale Druggists)	15	Cynta Mfg. Co. (Hygienic Towelines)	xxxviii	Goodall, Backhouse & Co. (Drugs, Chemicals, &c.)	ix
Baker & Roberts (Chemists' Valuers) Col. Supp.		Davenport, J. T., Ld. (Chlorodyne) ..	xxiv	Gough, Kidston & Co. (Petroleum Jelly)	xxxviii
Bandoeng Quinine Factories	xlii	Davis & Co. (Clinical Thermo- meters)	xxxvii	Gower, J. (Books)	Col. Supp.
Battin, H., & Co., Ld. (Chemicals) ..	vi	Dawson Bros., Ld. (Mch'y.)	xliii	Greiff, R. W., & Co., Ld. (Chemicals) ..	8-9
Battle, Hayward & Bower (Disinfect- ants)	xvii	De Jongh, Dr. (Cod Liver Oil)	xxx	Greenwich Lemonade (Mints)	48
Beatson, Clark & Co., Ld. (Bottles) ..	47	De S. N. (Chaulmoogra Oil)	vi	Griffin, J. J., & Sons, Ld. (Pharma- ceutical Machinery)	xliii
Beecham, Thomas (Pills)	xix	Dearborn, Ld. (Toilet Specialities) ..	31-42	Grout & Co. (Norvic Crêpe Bandage)	xxxix
Benger's Food, Ld. (Foods)	56	Dee Oil Co., Ld. (Petroleum Jelly) ..	xxix	Guest, T., & Co., Ld. (Throat Tablets, &c.)	18
Bengue, Dr., & Co.	xx	Dodge & Olcott Co. (Essential Oils) ..	24	Haller Laboratories, Ld. (Danysz Virus)	50
Bennett, Sons & Shears, Ld. (Machinery)	xliii	Douch, Ld. (Pertussin, &c.)	xvi	Hampshire, F. W., & Co., Ld. (Snow- fire)	34
Berdoe & Fish	Col. Supp.	Dubarry et Cie (Crème Shalimar) ..	Cover	Harker, C. R., Stage & Morgan, Ld.	
Berton, Arthur, Ld. (Vaccination Pads)	xxxvii	Dudley & Co. (Window Tickets) ..	xxvi	Harpis, Mfg. Co.	Text
Bishop, A., Ld. (Lithomyrine)	xvi	Duncan, Flockhart & Co. (Chloro- form, &c.)	ii	Harley, T. (Rat Poison)	50
Bishop, J. D., Co., Ld. (Perfumery Tubes)	24	Eastern & Russian Trading Co., Ld. (Santonine, &c.)	x	Harpis, Mfg. Co., Ld. (Talcum Powder)	28
Blackaller & Pleasance (Eau de Cologne)	22	Edwards' Harlene, Ld. (Hair Preps.)	37	Harrison, W., & Co., Ld. (Ld. (Ess. Oils) Text	
Blyton, Astley & Co. (Lozenges, Pas- tilles, &c.)	xi	Eno, J. C., Ld. (Fruit Salt)	i	Hartogate Tablet Co., Ld. (Dr. Stork's Worm Cakes)	xviii
Bond, J. (London), Ld. (Marking Ink) ..	48	Essences & Synthetics, Ld. (Ess. Oils)	25	Harvey & Co. (Dublin), Ld. (Veteri- nary)	50
Bourlois, A., & Cie, Ld. (Face Powders)	36	Eucryl, Ld. (Toilet Preps.)	29	Hay, Wm., Ld. (Culinary Flavourings) ..	14
Boussard, M. E. (Urodonal, &c.)	xxv	Evans, Sons, Lescher & Webb, Ld. Aspirin)	13	Heathside Metal Stamping Co.	xxvi
Boyd, Wilson & Co. (Perfumes)	39	Evan-Williams Co., Ld. (Henna Shampoos)	22-32	Henry, T. & W. (Calcined Magnesia)	x
Bramwell, E., & Son, Ld. (Chemicals) ..	vii	Fairy Dyes, Ld. (Home Dyes)	18	Hind & Lund, Ld. (Machinery)	xlii
Brand & Co., Ld. (Foods)	xxxix	Farmer, F., & Co. (Vermin Killer) ..	xxvi	Hobbs, W. H., & Co., Ld. (Ess. Oils) Text	
British Diamalt Co. (Malt Extract) ..	xxx	Farrow & Co. (Bottles)	38	Hoffmann La Roche Chemical Works, Ld. (Santonin, &c.)	ii
Burge, Warren & Ridgley, Ld. (Hot Water Bottles)	xxxvi	Fassett & Johnson, Ld. (Spray Syringe)	xxxix	Hollandische Melksuikerfabriek	xxv
Burgoyne, Burbidges & Co., Ld. (Zotal Liniment)	xvii	Fellows' Medical Mfg. Co., Inc. (Syrups)	xx	Hood, C. I., & Co., Ld. (Medicine) ..	xxv
Burkett, Sharp & Co., Ld. (Chemicals) ..	vii	Ferguson, A. E. (Liquorice Juice) ..	xx	Hough, Hoseason & Co., Ld.	viii
Burrough, J., Ld. (Absolute Alcohol) Text		Ferris & Co., Ld. (Nigroids)	x	Hovenden, R., & Sons, Ld. (Lloyds Euxesis)	34
Burroughs, Wellcome & Co. (Haze- line Cream)	55	Fine Chemicals, Ld.	vi	Howard Lloyd & Co., Ld. (Tablets) ..	xii
Carnegie Bros. (Surgical Dressings) ..	xxxv	Fink, F., & Co. (Gums)	xxvi	Hubbuck, T., & Son, Ld. (Oxide of Zinc)	vii
		Forbest, Ld. (Developing)	xxvi		
		Ford, Shapland & Co., Ld. (Sanitary Paper)	xliv		

[Continued overleaf.]

TOMLINSON & HAYWARD Ltd.
LINCOLN

The Original Firm.

Please address as above. No connection with any other Firm.

Hayward's Sheep Dips & Disinfectants
Luddington's Oils & Veterinary Preparations
Tomlinson's Dairy Helps

Above lines Advertised and Sold by Chemists in all Agricultural Districts. Stocked by Wholesale Houses.
We supply the Trade, not us ers.

We should like to send you our list of OWN NAME PACKING: Can offer good value and style.

Veterinary Preps. Embrocation, &c.
Seed Dressings Marking Paint
Water Glass, &c.

EUREKA WEED KILLER has largest Sales.

INDEX—cont.

INDEX—cont.

Huisking, C. L., Inc. (American Drugs)	xiv	Newball & Mason (Wine Essences) xxxii	Stearns, F. & Co. (Packed Goods) xv	
Jakson, J., & Co. (Mitcham Rd. 1921), Ld. (Ess. Oils)	24	Oppenheimer, Son & Co., Ld. (Tonic) 16	Stephens Bros. & Co. (Ess. Oils and C.L.O., &c.)	24-xxx
Johnston & Adams (Slipperine)	xlviii	Orridge & Co. Col. Snpp.	Sterns, Ld. (Oils, Petroleum, &c.) xxxix	
Johnson & Sons (Mfg. Chts.), Ld. (Malt Extract, &c.)	iii	Osmos Aperient Water	Stevenson, H. E., & Co. (Concentrated Essences)	21
Jones, Samuel & Co., Ld. (Gummed Paper)	50	Owbridge, W. T., Ld. (Lung Tonic) xxiv	Stevenson, Hugh, & Sons, Ld. (Boxes) xli	
Josephs, Philip, & Sons, Ld. Col. Supp.		Owtzin Co. (Vacuum Flasks)	Stewart, Goodall & Dunlop, Ld. (Nuctone)	36
Kalos (Liquorice)	xii	Page, Chas., & Co., Ld. (Chemicals) vi	Sutton, G. F., Sons & Co. (Ammonia) xxxix	
Kay Bros., Ld. (Linseed Compound) xxvii		Parke Davis & Co. (C.L.O. Emulsion) 10	Swales, Thomas (Hot Water Bottles) 47	
Kent, G. B., & Sons, Ld. (Brushes) ..	40	Pears, A. & F., Ld. 33	Thew, Hooker & Gilbey, Ld. (Malted Milk)	6
Kerfoot, T., & Co., Ld. (Vapex)	17	Penney & Co. (Toilet Preparation) ..	Thompson & Capper, Ld. (Quinphos) xix	
King, J. C., Ld. (Duplicate Books) xxiii		Pharmaceutical Lanoline Co. (Lanoline)	Tomlinson & Hayward, Ld. (Seed Dressings, &c.)	5
Kirby, H. & T., & Co., Ld. (Cherry Cough Injubes)	19	Physikurate, Ld. (Propy.)	Tomlinson, T., & Sons	Col. Supp.
Lang, Jules, & Son (Glassware)	46	Pierson, Morrell & Co., Ld. (Salicylic Acid, &c.)	Tompkins, J., Ld. (Hot Water Bottles)	xxxix
Lincoln & Midland Counties Drug Co. Ld. (Clarke's Blod Mixture) xxvii		Potter & Clarke, Ld. (Herbs)	Tooths Extract of Meat Co.	xxxi
Liverpool School of Pharmacy	54	Proprietary Cures Patent Co., Ld. (Krenomar)	Tucker & Cross (Castor Oil, &c.) ..	xvi
Lloyd, Aimée & Co. (Euxesis)	35	Quelch, Henry C., & Co. (Manicure Sets)	Tyrer, T., & Co., Ld. (Chemicals) ..	v
London College	54	Randall & Wilson, Ld. (Standardised Galenicals)	United Laboratories & Chemical Co., Ld. (Sprazone)	51
Lorimer Marshall, Ld. (Packed Goods)	19	Reuter, R. J. (Perfumery)	Van Der Hoeck, G. (Bottles)	xxvi
Lysol, Ld. (Marshalls Lysol)	44	Roberts' Patent Filling Machine Co. xlii	Vange Wells (Vange Water)	51
McCaskey Register Co., The (Registers)	Text	Robinson & Sons, Ld. (Pill Boxes) ..	Vanities, Ld. (Grease Paint)	34
McGlashan, D., Ld. (Abidine)	xvi	Ronoleke Hot-Water Bottles	Venesta, Ld. (Coll. Tubes)	xli
Macfarlan, J. F., & Co., Ld. (Opoidine)	v	Roques, Ferdinand (Alkaloids, Cacydylates)	Vickers, Ld. (Containers)	xli
Mack-Ivor, J. Col. Supp.		Rose J. L. (Pyrogallie Acid)	Viscose Development Co., Ld. (Bottle Cappings)	40
Magniphone Co.	18	Rubberfabriek Holland	Waide, Thos., & Sons, Ld. (Printers)	52
Manchester School of Pharmacy ..	xxvi	Ruddock & Co. Col. Supp.	Wallace Heaton, Ld. (Photographic)	48
Maw, S., Son & Sons, Ld.	11	Sadler & Moore (Cigars)	Warne, W., & Co., Ld.	xxvii
Mawson, J. W., & Co., Ld. (Capsules) vi		Saint Raphael Cie (Tonic Wine) xxxii	Warrington Chem. & Drug Co.	vi
May, Roberts & Co., Ld. (Hot Water Bottles)	xlviii	Samuelson, P., & Co. (Ess. Oils) ..	Washington Chemical Co., Ld. (Magnesia)	xii
Meade-King, Robinson & Co., Ld. (Petroleum Jelly, &c.)	xxviii	Sandoz Chem. Co., Ld. (Chlorophyll) 28	Watts, J. (Safety Razor Blades) ..	xxix
Meggesson & Co., Ld. (Throat Tablets) 56		Sanitas Co., Ld. (Disinfectants) ..	Welch & Horner (Drngs, &c.) ..	x
Melin, C., & Co. (Glassware)	47	Schutze, F., & Co., Ld. (Soothers) xxxvii	Westminster College of Pharmacy ..	54
Menley & James, Ld. (Iodised Throat Tablets)	xlviii	Scruton, Oscar, & Co. (Nurse Harvey's Mixture)	Whitaker & Co. (Hat Dyes, Household Dyes)	xlv
Millar, A., & Co., Ld. (Orange Wine) xxvi		Scurr, C. A. (Correspondence Course) 54	Wigglesworth, Ld.	1
Mills, A. J., & Co., Ld. (Honey) ..	xxxii	Shadeine Co. (Hair Dyes)	Wilkinson & Simpson, Ld. (Wine Essence)	xxxii
Milners Chemical Co. (Plano)	xx	Shawyer & Co. (Developing, &c.) ..	Wilkinson, J. F. (Printing)	xliv
Moneys Patent, Ld. (Bottles)	46	Silks Toilet Co. (Silkodono)	Wilkinson, S. W., & Co. (Tablet Machines)	xlii
Morny Frères, Ld. (Eau de Cologne) Cover		Simond, S. D., & Co., Ld. (Kelloggs Bran)	Williams, P. J. (Irvona)	xxvii
Morris, G. (Developing, &c.)	48	Simplic Soother	Winter, E., & Co., Ld. (Gold and Silver Leaf)	xvi
Murphy, J. F. Veterinary Antiphlogistine)	xxii	Slack, A. B. Col. Supp.	Wood Bros. Glass Co., Ld. (Bottles)	49
Naef, M., & Cie (Synthetic Perfumes)	Text	Slack & Brownlow (Filters)	Wright, Layman & Umney, Ld. (Household Embrocation)	Cover
Namias, S., Sons (Perfumery)	28	Smith & Co. (Fly Catcher)	Youldon, F. (Bottles)	46
National Cash Register Co., Ld.	xxiii	Smith, T. & H., Ld. (Chemicals) ..	Zeal, G. H., Ld. (Clinical Thermometers)	xxxvii
National Drug & Chemical Union Col. Supp.		Sonthall Bros. & Barclay, Ld. (Toilet Powder)	Zimmermann, C., & Co. (Chem.), Ld. (Iodozan, &c.)	12-xxi
		Spatula Publishing Co. (Books) ..		
		Sponge Fishing & Importing Co.		
		Squire & Sons, Ld. (Books)		
		Stambois, L. J. (Gillette Blades, &c.) xxvi		
		Standard Wood Chemicals Co., Ld. (Formaldehyde)		

The Malted Milk Season is Here

ADEQUATE PROFIT AND
ALL REASONABLE SALES
ASSISTANCE GIVEN.

*Thew, Hooker & Gilbey, Ltd.
Buckingham.*

Every Pharmacist should look immediately to his stock of **HOOKER'S MALTED MILK** in anticipation of an increased winter demand.

It is now generally conceded that **HOOKER'S MALTED MILK** is a distinct improvement on all other preparations of its kind, not only in flavour, but also in nutritive power and digestive facility, as demonstrated by dietetic experience and independent "Lancet" Analysis.

Hooker's

MALTED MILK

J. E. GARRATT, 96 Southwark Street, LONDON, S.E.1



Rhodia

Brand

**PHARMACEUTICAL AND
PHOTOGRAPHIC PRODUCTS**

Manufactured by
LA SOCIÉTÉ CHIMIQUE DES USINES DU RHÔNE.
PARIS.

Acid Acetyl-salicyl (*Powder & Crystal*)
 Acid Salicylic (*Powder & Crystal*)
 Amidopyrazoline
 Antipyrin Salicylate (*Equivalent to Salipyrin*)
 Guaiacol Carbonate
 Guaiacol Liquid
 Guaiacol Pure
 Hydroquinone

Paramidophenol Hydrochlor.
 Phenacetin
 Piperazine
 Potassium sulpho-guaiacolate
 Pyrazoline (*Phenazone*)
 Resorcin (*Medicinal & Technical*)
 Rhodol (*Equivalent to Metol*)
 Salol

Sodium Hyposulphite
 (*Prismatic Crystal*)
 Sodium Salicylate
 Sodium Sulphite
 (*Anhydrous*)
 Vanillin

**ENQUIRIES SOLICITED FOR
SPOT OR FORWARD
DELIVERY**

R.W. Greeff & Co. Ltd.

HEAD OFFICE:
 THAMES HOUSE,
 QUEEN ST. PLACE,
 LONDON, EC4
 T.N. CITY 6550 (8 LINES).
 TEL. ADD. GREEFF, LONDON.



BRANCH OFFICE:
 PALATINE BANK BUILDINGS,
 10 NORFOLK ST.,
 MANCHESTER.
 T.N. CITY 5706-5707
 TEL. ADD. GREEFF, MANCHESTER.



Pharmaceutical & Photographic Products

(WHOLESALE QUANTITIES ONLY)

Potash Binoxalate

Acetic Acid

Formaldehyde

Acetanilide

Hexamine

Benzoic Acid

Milk Sugar

Calcium Lactate

Phenacetin

Corrosive Sublimate

Salicylic Acid

Lecithin ex ovo 95 %

R. W. Greeff & Co. Ltd.

Thames House, Queen Street Place, London, E.C. 4

Telephone 6550 City
(8 LINES.)



CHESTER BRANCH
THE BANK BUILDINGS
NORFOLK STREET.
PHONE CITY 5706/5707

NEW YORK AGENTS
R. W. GREEFF & CO. INC.
178, FRONT STREET,

An Emulsion

worthy of the pharmacist's interest.

Reliable

Elegant

Palatable

Profitable



TERMS
ON
REQUEST

PARKE, DAVIS & CO., 50-54 Beak Street, LONDON, W.1.

Maw's



Page

MERITOR

Means
PROGRESS.

TAKING the Chemists' point of view, the progressive points of "Meritor" Brushware are:—

1. Profit arising from increased business.
2. Protection from outside competition.
3. Attractive presentation which makes easy sales.

For his customer, progress is exemplified:—

1. In the convenience of having a complete range of branded toilet brushware of known origin and reliable quality.
2. In the direction of better values.
3. In the confidence that every brush carries a firm guarantee.

Therefore, it is obvious that the chemist who studies the advancement of his business should display and sell "Meritor" Brushware.

Progressive pharmacists in all parts of the country are showing distinctive "Meritor" displays. It will pay you handsomely to follow their lead.

Progress is essential to *your* business, and "Meritor" *means* progress.



Telephone:
City 7
Private
Branch
Exchange

Telegrams:
Eleven
Cent
London

S. Maw, Son & Sons Ltd.
Aldersgate St., London,
and Barnet.

Cables:
Eleven
London

Code
A.B.C.
4th & 5th
Edition



REDUCTION IN PRICE

Genuine Original

ANUSOL

HÆMORRHOIDAL SUPPOSITORIES

(Goedecke)

NOW RETAIL AT

Per Box
stamped.

3/-

Per Box
stamped.

Wholesale Discount on 1 doz. boxes	-	-	-	-	20%
„ „ 6 „ „	-	-	-	-	25%

Minimum quantity, 1 dozen boxes.

Sole official Importers of the genuine article :—

CHAS. ZIMMERMANN & CO. (Chemicals) Ltd.

9/10, ST. MARY-AT-HILL,

LONDON, E.C.3.

Aspirin

Two features of the perfect Aspirin tablet are:—

- (a) The absence of more than the merest trace of free Salicylic acid.
- (b) Rapid disintegration in water.

Aspirin tablets containing no Salicylic acid are non-existent. A slight dissociation takes place in manufacture.

The average Aspirin tablet sold to the trade contains up to 0.3 % free Salicylic acid. Evans' Aspirin contains the merest trace—a quantity considerably less than this percentage.

Drop an Evans' Aspirin into water and count the seconds it takes to disintegrate. You will not wait many seconds before you are convinced that the house for Aspirins is the house of:—

EVANS

EVANS SONS LESCHER & WEBB, LTD.
LIVERPOOL New York LONDON

**A SEASONABLE LINE
IN POPULAR DEMAND.**

CULINARY FLAVOURINGS

AT REDUCED PRICES

FOR FLAVOURING

**CUSTARDS, PUDDINGS, BLANCMANGE, CAKES,
ICES, JELLIES, SOUPS, GRAVIES,
AND MADE DISHES.**

PREPARED in a LARGE VARIETY of FLAVOURS, INCLUDING
LEMON, ALMONDS, VANILLA, etc.

$\frac{1}{2}$ -oz., 1-oz., 2-oz., 4-oz., 8-oz. and 16-oz. sizes.

ATTRACTIVELY LABELLED AND PACKED IN ONE DOZEN BOXES,
Specimens on Application. Special Quotations for Bulk Lots.

Head Office
and
Laboratories :
HULL,

William HAY, Limited,
Essence Distillers,
HULL & LONDON.

London Depot :
3 Browning St.
Walworth Road,
S.E. 17.

TELEGRAMS : "GINGER HULL."

"BUSHWORTH, WALROAD, LONDON."

CABLES : A B C (5TH ED.), BENTLEY'S.

62 $\frac{1}{2}$ %

P - K - L

PAIN KILLING LINIMENT

Its virtues are well known by the people.

The modern non-friction liniment for old age, middle age, the young, and all sportsmen. Kills the pain of rheumatism, sciatica, lumbago, gout, sprains, coughs and colds, asthma, bronchitis. Invaluable in the sports field for accidents and for overcoming muscular fatigue.

P.A.T.A. 1/6

1 gross and bonus dozen sells for .. £11 14 0

Cost 7 4 0

Profit .. £ 4 10 0

or 62 $\frac{1}{2}$ % on cost.

To the public we guarantee money refund if the benefits claimed are not given.

Special packing for Export. Prices on application.

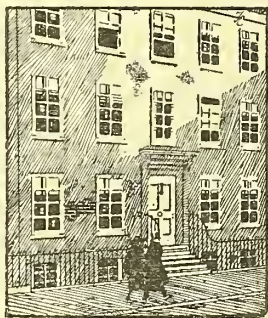
AYRTON, SAUNDERS & CO., LTD.

Manufacturing Chemists,

Hanover St., LIVERPOOL.

TELEGRAMS: SUNDRIES, LIVERPOOL.

TELEPHONE: ROYAL 4861.



"Harley Street"
has been prescribing
ROBOLEINE
for the past 15 years
*because it is without a doubt the
most nearly perfect tonic food
available to the medical profession.*

"ROBOLEINE" contains no drugs;
it is compounded of Red Marrow from
the long bones and Jelly from the rib
bones of oxen, together with "Cream
of Malt" described by the LANCET
to be "La creme de la creme of malt
extracts," egg-yolk and neutralized
lemon juice.

Every bottle of
"ROBOLEINE" you sell
strengthens the public's
confidence in your good
advice.

**AND THE PROFIT IS
GENEROUS; 50% ON
OUTLAY ON WINDOW
DISPLAY TERMS.**

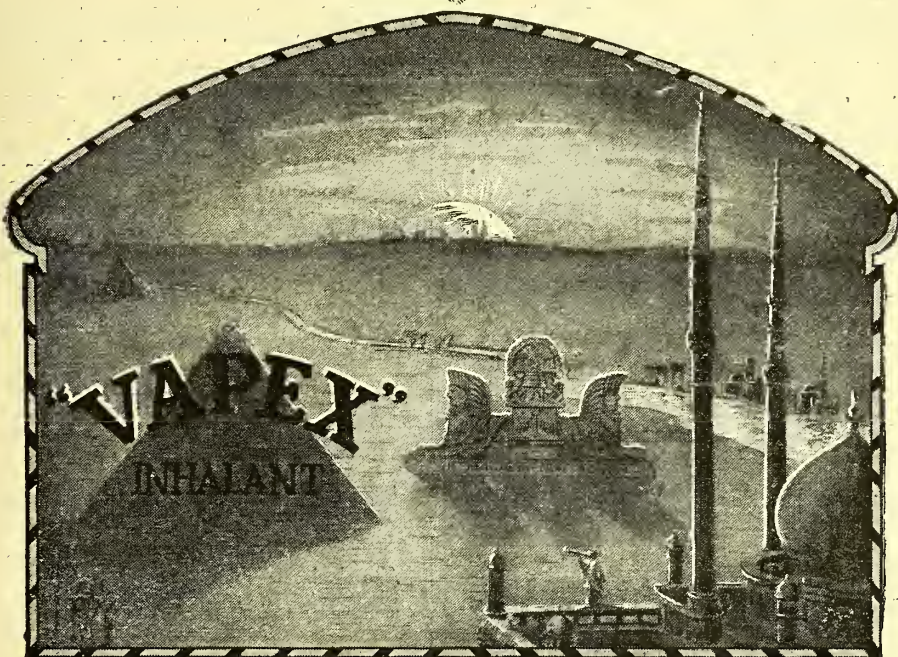
Please write for sample and
literature.

ROBOLEINE

renews and builds up wasted tissues and enables
the system to withstand bacterial attacks.

Manufactured only by

OPPENHEIMER, SON & Co. Ltd.
179 Queen Victoria Street, London, E.C.4.



Awake! for morning in the bowl of night,
Has flung the stone which puts the stars to flight;
And lo! the hunter of the East has caught
The Sultan's turret in a noose of light.—Omar Khayyam.

THE dawn of a new Cold-in-the-Head season finds "Vapex" established in public favour as firmly as are the Pyramids on their desert rock, or, may we add, as the double-sphinx trade mark in pharmaceutical estimation.

This year a new 3/- size has been introduced, which contains nearly twice as much "Vapex" as the original 2/- size, and is therefore very economical for family use.

It is now desirable to order a good supply for the winter season.

"Vapex" retail's at 2/- & 3/- per bottle, including stamp.
The trade prices are 18/6 & 27/6 per doz. (P.A.T.A.)



THOMAS KERFOOT & CO LTD,
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

COPYRIGHT

IODISED THROAT TABLETS

"THE SURE SHIELD BRAND."

Trade Mark.

8½d.

TINS.

5/6 per dozen.
63/- per gross.



1/3

TINS.

9/6 per dozen.
108/- per gross.

Now advertised in
the Daily and
Evening Papers as
under:

London Chronicle.
The Daily Express.
Daily Dispatch.
Liverpool Echo.
Yorkshire

Evening Post.
Newcastle Evening
Chronicle.
Sheffield Telegraph
& Star.
Birmingham Mail.
Nottingham
Evening Post.
Leicester Daily
Mercury.
Manchester

Evening News.
South Wales Echo.
Bristol Evening
Times.

Belfast Telegraph.
The Irish Times.

Western Evening
Herald.

Staffordshire
Sentinel.

Glasgow Evening
News.

The Era.

THE most popular
and effective throat
tablet—no greater
testimony can be
made than, although
the brand has never
previously been pub-
licly advertised the
sales have consistently
increased month by
month.

We supply a full
range of display ma-
terial, and with open-
ing orders send free
samples. Can we send
you a sample gross
order, assorted, with
9 dozen samples car-
riage paid as under:

	Costing
9 doz. 8½d. tins	2 7 3
3 doz. 1/3 "	1 7 0

£3 14 3

	Retail Price
9 doz. 8½d. tins	3 16 6
3 doz. 1/3 "	2 5 0

£6 1 6

Showing a Profit of
£2 7 3

THOS. GUEST & CO., Ltd.,
Ancoats, MANCHESTER.

CHEMISTS

are often asked by those
WHO ARE DEAF
for a reliable electrical
HEARING AID

The **Magniphone**—one of the most
wonderful inventions of this WIRE-
LESS age—is the best and most powerful
aid to those with defective hearing in
existence.

It not only enables a deaf person to
hear, but, by obviating the strain on the
Aural Nerves, improves the natural
hearing.

It is recommended by many leading
Aural Specialists, and supplied to the
Ministry of Pensions. Hundreds in use
throughout the world. Special Terms
to Pharmacists.

The Magniphone Company,

43a Market Street, Manchester.

Also obtainable from

Messrs. J. WOOLLEY, SONS & CO., LTD.
Deansgate, Manchester.

GOODS WELL ADVERTISED ARE HALF SOLD.

1. There are two reasons for the enormous sales of
"Fairy Dyes." One is inside the packet—the
goodness of the Dyes—their reliability and their
low cost. The other is that we spare no effort or
expense to advertise them well.

2. In every leading Ladies' Weekly and Monthly
throughout Great Britain, clever "copy" and strik-
ing illustrations are convincing the public of the
superiority and economy of using "Fairy Dyes"
and no others for every home need.

Fairy Dyes

3. Do you want to increase your sales, your re-
peat orders, your turnover, with a dye that is easy to
sell because it is so simple and so easy to use? There
is a choice of twenty-two shades suitable for cottons,
woollens, linens or silk, and already "Fairy Dyes"
are recognised to be most reliable and economical.

4. Send us your order now. It is too late when you
learn that your competitor has been doing great
business with "Fairy Dyes," for the demand for
"Fairies" is already very great and growing, and
the man who has them in stock is the man who scores.
The selling price is 2d. per packet and the public
want them from you.

FAIRY DYES, LTD.

Regd. Office: 37/41 GLASSFORD STREET, GLASGOW.

Telegrams: "Fairyland Glasgow." Phone: 2423 Bell.

LONDON DEPOT: 292 Upper Street, ISLINGTON, N.1.

Lorimer-Marshall, Ltd., for PACKED GOODS

Cod Liver Oil Emulsion
 Children's Cough Mixture
 Children's Tonic
 Balsam of Honey
 Honey & Lemon Linctus
 Lung Tonic Tonic Elixir
 Meat & Malt Wine

AT KEENLY COMPETITIVE PRICES.

LORIMER-MARSHALL, LTD., 12 Tower Hill, London, E.C. 3

Works Telephone : New X 2119.

Telegrams : " Lorimarsco, Bilgate, London."

Cherry Cough Glycerine Jujubes

FROM A CHEMIST IN YORKSHIRE

Oct. 12th. 1922.

"Dear Sirs,

Please despatch immediately,
 urgent.—

2 gross 2 oz. 7½d. Cherry Cough Jujubes.

I made a show in my side window
 on Monday and have already, (Thursday)
 sold out the gross sent. I must say it is
 the most profitable and quickest seller
 I have handled.

Yours faithfully,"
 X.Y.Z.

In order to have your share in this
 wonderful "Seller" write at once for particulars,
 and so ensure a place on our Waiting List.

H. & T. KIRBY & Co., Ltd.,
WILLESDEN GREEN, LONDON. N.W.2.



Reproduction of Window Display.

CHEMICAL WORKS ROERMOND

H. RAAB & CO.
ROERMOND, HOLLAND.

Manufacturers of
Base Perfumery Products and Flower Oils.

- RACO -

MUSK AMBRETTE c.p. 100%.

MUSK KETONE c.p. 100%.

MUSK XYLOL c.p. 100%.

OLEUM-MUSK art.

generally regarded as the
STANDARD.

Sole Representative for the U.K.:

ALFRED PAUL WHITE, 5 Water Lane,
Gt. Tower Street, LONDON, E.C. 3.

ESTABLISHED 1880.

Concentrated Essences

"4 Medals" Brand

FOR LIQUEURS

One volume of Concentrated Essence added to 100 volumes of Syrup and Spirit (full directions given) will produce the corresponding liqueur, almost indistinguishable from the genuine liqueurs.

Curacoa - -	7/6 oz.	Jamaica Rum	7/6 oz.
Kirsch - -	7/6 „	Cognac (1 vol. to 200 vols.)	15/- „
Kümmel - -	7/6 „	Gin (Hollands)	7/6 „
Maraschino -	7/6 „	Vermouth -	7/6 „

Less 20% Discount for Cash

Concentrated Essences for **SCOTCH WHISKY** and for Liqueurs of the **BENEDICTINE** and **CHARTREUSE** type are also 7/6 per ounce, but these two latter being registered, it must be distinctly understood that the Essences do not profess to make the genuine liqueurs, neither must the liqueurs be sold under these names, nor the packages or "get-up" imitated in any way.

Recent Testimonials.

"The Concentrated Essence for Scotch Whisky is exceedingly good in every way."—*Far East.*

From South America—"The Concentrated Essences for Liqueurs were found excellent and give very good results."

1/12/1921—"It may interest you to know that we have tried many other Essences, but **NONE OF THEM COULD COMPARE IN ANY WAY WITH YOURS.**"

"The Benedictine type of Essence is really excellent."—(South America.)

H. E. STEVENSON & CO.

LICENSED COMPOUNDERS OF TINCTURES, ESSENCES, PERFUMES, &c., FOR SHIPMENT,

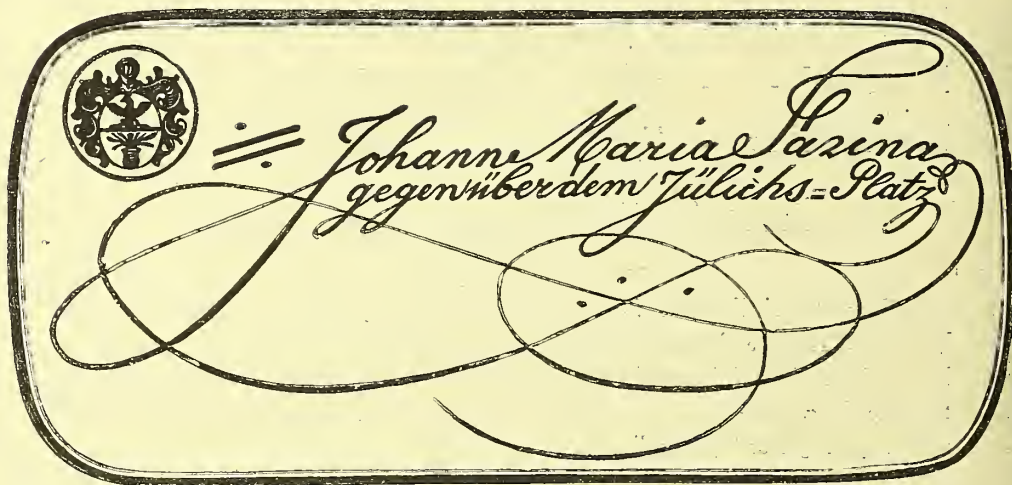
122 Great Suffolk Street - London, S.E.1.

"THE GENUINE" EAU DE COLOGNE

OF
JOHANN MARIA FARINA,
GEGENÜBER DEM JULICHS-PLATZ
COLOGNE

HAS had a world-wide reputation for over 200 years, and has obtained the highest awards at all International Exhibitions—London, 1851 and 1862; Paris, 1855 & 1867; Grand Prize, Paris, 1900.

THE LABEL.



is probably the most widely imitated Trade Mark in the world—but note the inverted "r" (almost like a "z") in the name Farina—no less than thirteen actions have been successfully brought in the High Court of Chancery to protect it.

IT SELLS at sight because it is known to be the genuine and original Eau de Cologne, and its composition has never varied in the slightest degree since it was invented over two centuries ago by the ancestor of the present maker.

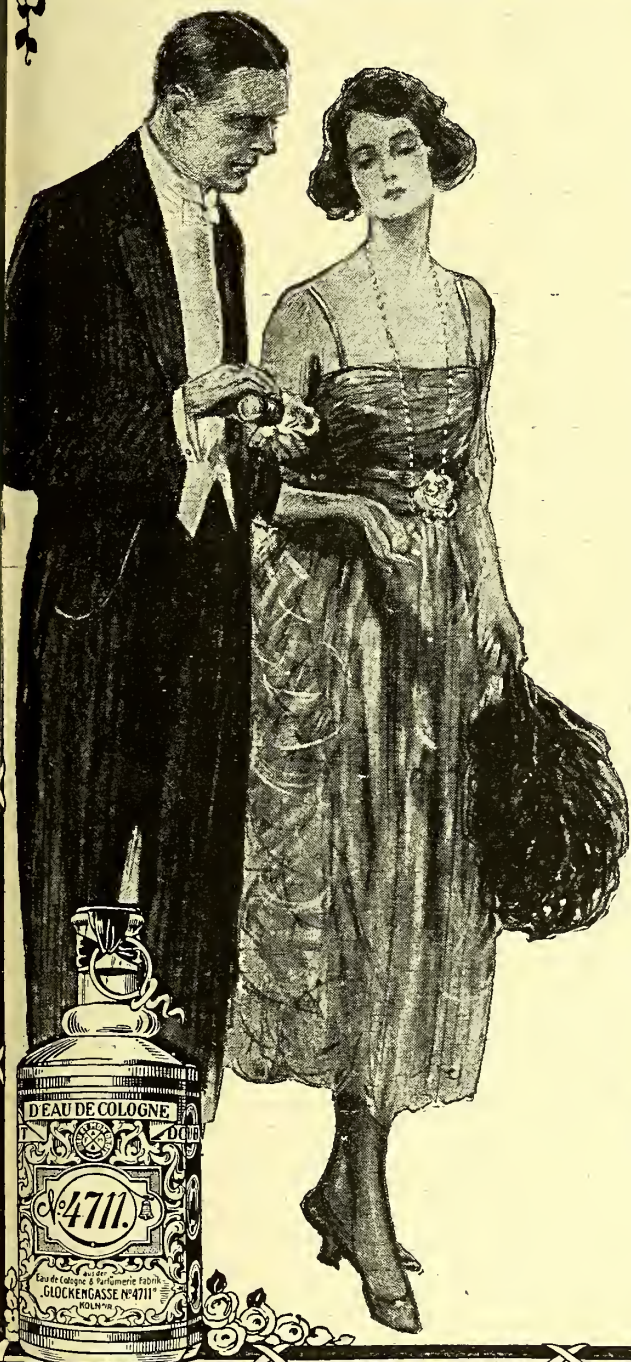
MINIMUM RETAIL PRICES:

	Each		Each
No. 0—Watch Flasks ... (2 oz.)...	4/6	No. 4—Small Wicker Bottle (6 oz.)...	12/6
No. 1—Short White Bottles (2 oz.)...	4/6	No. 5—Medium " " (12 oz.)...	25/-
No. 2— " " (4 oz.)...	8/6	No. 6—Large " " (24 oz.)...	50/-
No. 3—Double White " (8 oz.)...	16/6		

For New and Highly Advantageous Wholesale Terms apply:

BLACKALLER & PLEASANCE
8 LAURENCE POUNTNEY HILL : : LONDON, E.C.4.

No. 4711. Eau de Cologne



EXTRACT FROM LETTER

received from customer carrying on a high-class business in a large Midland town.

The letter was received quite recently, and only three weeks after he had been supplied with a parcel amounting to about £66 retail value:

“Since making our display of ‘4711’ we have sold nearly all, and are quite out of the 2/6 size. Will you please send us the following as soon as possible, terms as before.”

Here follows an order amounting to £50 retail value.

“4711”

backed up by unequalled quality and extensive advertising is bound to bring you business, and it will always satisfy your customers.

Sole Importer—

R. J. REUTER
69 Carter Lane, E.C.4

ROURE-BERTRAND FILS,Established 1820. **GRASSE (Alpes Maritimes), FRANCE.****LAVENDER OILS** distilled at our own works at **LARAGNE** on the High Alps.
PURITY and natural ODOUR of our standard QUALITIES
GUARANTEED.**NEROLI OILS**, natural, **OKRIS** CONCRETE
GREAT SPECIALITIES.Also large Distillers of other ESSENTIAL OILS: GERANIUM,
PATCHOULY, PEPPERMINT, PENNYROYAL,
ROSEMARY, SPIKE, PERSIC OIL, etc., etc.
ALL PERFUMERY PRODUCTS SUPPLIED.**SOCIÉTÉ ANONYME
des Etablissements JUSTIN DUPONT,
ARGENTEUIL (S & O), FRANCE.**Manufacturers of **ARTIFICIAL PERFUMES** and
SYNTHETIC CHEMICALS.**LINALYLE ACETATE, LINALOOL**, etc.
AMBAR, CHYPRE, CIVET, JASMIN, ROSE MUGUET
FLOWERS, etc., etc., and many of the finest original
artificial PERFUMES now used for PERFUMING
SOAPS, SACHETS, EXTRAITS, etc.SOLE AGENTS for **ROURE-BERTRAND FILS** AND **JUSTIN DUPONT** :**Stephens Brothers & Co.**Offices: 13a Finsbury Square, London, E.C.2
Warehouses: 3 & 4 Mallow St., London, E.C.1LARGE STOCKS HELD IN LONDON. For SAMPLES and PRICES apply to **STEPHENS BROS. & CO.****DODGE & OLCOTT CO.,**20 MARK LANE,
LONDON, E.C.3.

THE "D & O" BRAND

*is the "Standard of Quality" for*OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT,
SASSAFRAS, ETC.

BALSAMS of Copaiba, Peru, Tolu.

TONKA BEANS, Angosturas.

Phone—
CITY 2468.Telegrams—
"EGDARF, FEN, LONDON."**JAKSON'S
PEPPERMINT, LAVENDER
& CAMOMILE OILS**
are the BEST.Produced and Prepared by
**THE LARGEST GROWERS & DISTILLERS
IN ENGLAND.****Distillery :**
J. JAKSON & CO. (Mitcham Rd., 1921), LTD.
Mitcham Road, WEST CROYDON.**AGENTS for the U.K. :**
F. NEWBERY & SONS, LTD.
27 & 28 Charterhouse Square, London, E.C.1**We offer from Stock**ROD STOPPERED
PERFUME TUBES**1,000**
GROSS of**ROD STOPPERED
PERFUME
TUBES**in any quantity from 10 gross
upwards.We invite your enquiries for these,
also for GLASS BOTTLES and
POTS in any colour or design.**J. D. BISHOP & CO., Ltd.**22 & 23 Great Tower Street, LONDON, E.C.3.
Telephone: Minorics 2710—2711.
WHOLESALE ONLY.

ESSENCES & SYNTHETICS LTD

Directors: D. M. MISELL. A. A. DENT.

4 CARLISLE AVENUE, FENCHURCH STREET, LONDON, E.C.3.

Manufacturers of Synthetics and Importers of Essential Oils and
Pharmaceutical Products.

Telephone No.: AVENUE 1419.

Telegraphic Address: "ESSYNTHET, ALD. LONDON."

ACID ACETO SAL.B.P.

SALICYLIC ACID, B.P.



BENZOATE OF SODA

BENZOIC ACID, B.P.

BENZYL BUTYRATE

Useful for combining with Benzyl Acetate to produce a fine Jasmin odour.

GERANYL BUTYRATE

Useful on account of its sweet odour in combination of Rose compositions.

GERANIOL EXTRA FROM JAVA

GERANIOL FROM PARMAROSA

The superiority of Geraniol Parma Rosa over that made from other essential oils is generally admitted. Its sweet odour, recalling that of the Rose, makes it suitable for Rose compounds.

HYDROXYCITRONELLOL, Pure

(Lily of the Valley Base).

IONONE ALPHA, IONONE BETA

IONONE 100 per cent., IONONE FOR SOAPS

METHYL IONONE

VERT DE VIOLETTE

As its name indicates, this is the natural product of violet leaves—"the green of the violet." It is a speciality that gives to violet perfumes the suggestion of the "greenish" colour odours that form part of the delicate fragrance of a bunch of violets.

LINALOL FROM BOIS DE ROSE

LINALYL ACETATE

92% Ester from Bois de Rose

A colourless oil with a very characteristic odour of Bergamot; especially adaptable to Lily of the Valley and Jasmin odours.

METHYL SALICYLATE

PHENYL ETHYL ALCOHOL

A component of Otto of Rose possessing a typical rose and "honey" odour. This product has a wide range of uses, being not only used for Rose odours, but also for blending with almost any flower oil. Its odour value combined with its low price makes it available for use in formulas where cost is the primary consideration as well as in formulas where cost is but a secondary matter.

PHENYL ETHYL BUTYRATE

Useful for combination with Phenyl Ethyl Alcohol, producing in Rose odours the sweet smell of Rose leaves

PARACRESOL ACETATE

For Narcissus Base.

ALDEHYDE C 8 or OCTYLIC

"	C 9	"	NONYLIC
"	C10	"	DECYLIC
"	C11	"	UNDECYLIC
"	C12	"	DUODAECYLIC
"	C13	"	MYRISTIC
"	C14	"	PEACH ALDEHYDE
"	C15	"	STRAWBERRY

MOUSSE DE CHENE

Compositions, extra, ordinary, and for soaps.

The MOUSSE DE CHENE is used as a base for perfumes such as:—

FOUGERE ROYAL BRUGERE

We give an excellent formula below:—

JASMIN ART. E. & S.	...	2.0
JASMIN NATURAL	...	0.5
MOUSSE DE CHENE	...	1.5
MUSK AMBRETTE	...	0.5

Direct Importation.

OIL GERANIUM, AFRICAN & BOURBON

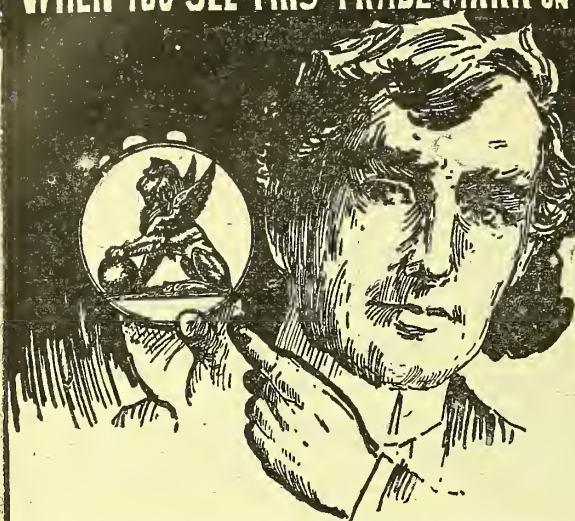
SPANISH SPIKE LAVENDER

SPANISH OIL ROSEMARY

Works: HULL.

WHEN YOU SEE THIS TRADE MARK ON A PACKAGE

you know you are getting
the ORIGINAL—GENUINE



WINGED LION BRAND HERBS in PACKETS

These Packets have the largest sale in the
United Kingdom, by reason of their Purity and
Reliable Contents.

POTTER & CLARKE, Ltd.,

*Drug Merchants, Manufacturing Chemists,
Importers of Herbs, Roots, and Barks,*

**60, 62 & 64 ARTILLERY LANE,
LONDON, E.**

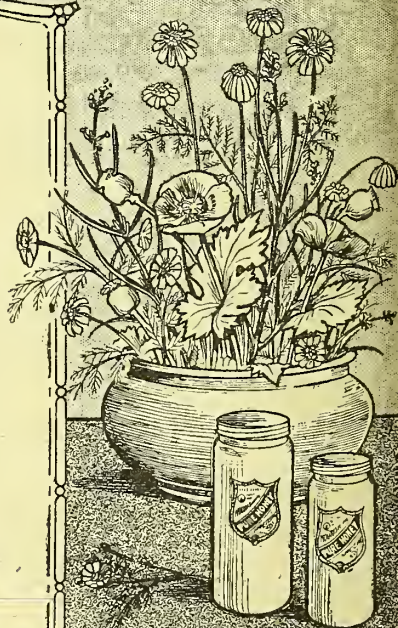
And 24 LUNA STREET, GT. ANCOATS, MANCHESTER.

Put up in
1-gross
cardboard
cartons,
15/- per gross
net.



Headquarters for New Season's
**CAMOMILES,
LAVENDER FLOWERS,
POPPY HEADS
HONEY.**

POTTER & CLARKE, LTD.
60 & 64 Artillery Lane, London, E.



POTTER & CLARKE, Ltd., 60-64 Artillery Lane, London, E.1
Also at 24 LUNA STREET, GT. ANCOATS, MANCHESTER.

Manicure Sets

*Will you
give us a
Call
and
make
a
Selection ?*

We have in our Showroom, to be cleared at knock-out prices, about

2,500

ODD

Manicure Sets

ALL NEW GOODS, costing from 10/- to £14 each, which we intend to dispose of before Christmas at

3/- each to £5 each.

Henry C. Quelch
& Co.

4/5 Ludgate Square
LONDON, E.C. 4

We have also on view a full range of our regular numbers, together with an excellent selection of
CARDED GOODS, including :

Orange Sticks

Flexible Files

Bone Trimmers

Emery Boards

Nail Nippers

Tweezers

PARFUMS D'ORSAY



No. 1240.

WE have got the most attractive and beautifully packed perfumery in the world. In addition, the contents are of the highest standard, backed by a repute of a very long standing

THESE ARE THE LINES THAT SHOULD APPEAL TO YOU FOR CHRISTMAS DISPLAY.

Prices are as reasonable as can be expected for such high-class perfumery.

IN WHICHEVER DISTRICT YOU ARE DROP US A LINE, AND WE SHALL HAVE PLEASURE IN SENDING OUR REPRESENTATIVE ROUND.

British Agents: S. Namias Sons, 45 Beech Street, Barbican London, E.C. 1
Irish Agents: W. J. Rankin & Son, 11 Waring Street, Belfast.

Phone
Clerkenwell 2944



SHADEINE
FOR COLOURING GREY HAIR
This popular article is largely advertised and stocked by all Wholesale Houses.
Trial Size 8d., per post 10d. 1/4 size, per post 1/7; 2/6 size, per post 2/11; 3/9 size, per post 4/6; 8d. size, 6/- doz.; 1/4 size 12/- doz.; 2/6 size, 24/- doz.; 3/9 size, 36/- doz.
THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

MANICURE SETS
Seven Implements, Silk Lined with Cloth Bottom in Imitation Leather Case .. 48/- dozen
Carriage extra. SAMPLES 5s. post free, returnable. Terms, Cash with order. BARGAIN LIST SENT ON APPLICATION.
L. FRANKENBERG, 15 Stoney Lane, Houndsditch, E. 1
Phone: BANK 448.

Talcum Powder

OF ALL GRADES
FOR ALL PURPOSES

FOR SAMPLES AND PRICES APPLY TO:
W. Harrison & Co., Ltd.
16 MINCING LANE, LONDON, E.C. 3;
And at
14 MARKET PLACE, MANCHESTER.

CHLOROPHYLL

HIGHEST QUALITY.

ABSOLUTELY PURE.

UNIFORM DELIVERIES.

CHLOROPHYLL C.	Oil soluble. Blue Shade.
CHLOROPHYLL CC.	Oil soluble. Yellow Shade.
CHLOROPHYLL S.	Water and spirit soluble.
CHLOROPHYLL P.	Soluble in 70% to 100% alcohol.

THE SANDOZ CHEMICAL CO. LTD., BRADFORD.

EUCRYL DENTURE POWDER

During the present year,

2,679

Dentists have given

Eucryl Denture Powder

the favour of their personal recommendations.

Are *you* stocked with this preparation? If not, you are losing a sure source of good business and generous profits.

*An efficient cleanser
and antiseptic for
artificial teeth and
denture plates*

Retail (P.A.T.A.) Price 7½d. per box

SUPPLIED TO CHEMISTS ON OUR USUAL BONUS TERMS

Price List and Trial Box post free on application

EUCRYL, LIMITED

[Sales Department]

SHIRLEY, SOUTHAMPTON

SOUTHALL'S

(BORIC TALCUM)

NURSERY & TOILET POWDER

COOLING AND
SOOTHING TO THE
SKIN



DELIGHTFUL IN
USE and FRAGRANT
IN ODOUR

IN TWO SIZES.

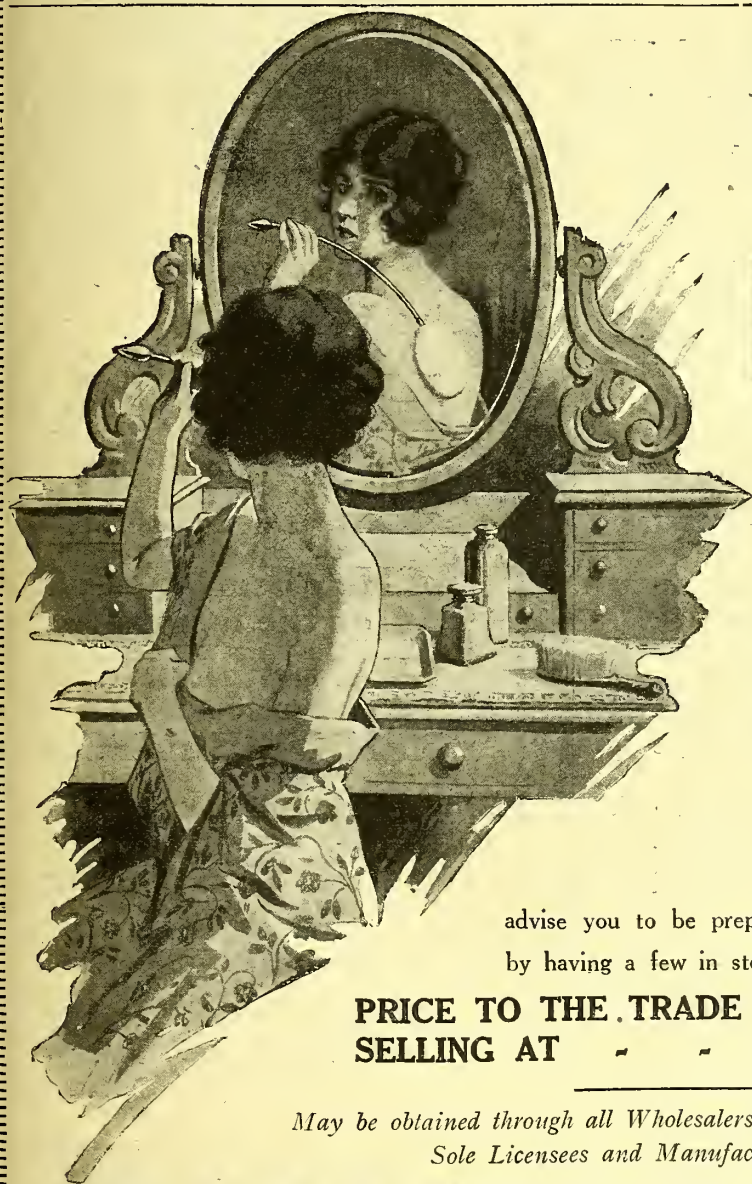
No. 1.	..	..	RETAIL 9d. Tin	TRADE 6/5 dozen.
No. 2.	..	..	1/- Tin	8/8 dozen.

SOUTHALL BROS. & BARCLAY, LTD.
LOWER PRIORY, BIRMINGHAM.

A STRIKING NOVELTY BY DEARBORN LIMITED.

The Ambedia Back Puff

PATENT No. 182060.



THIS useful appliance has been designed to fill a **Long-felt Want.**

Ladies will welcome and appreciate a Puff by the use of which they are enabled to dispense with the assistance of a maid, and powder their backs themselves.

We are advertising extensively in the Daily Press and Leading Ladies' Journals, and

advise you to be prepared to meet the demand by having a few in stock.

PRICE TO THE TRADE - 11/3 Nett.
SELLING AT - - - 15/- P.A.T.A.

*May be obtained through all Wholesalers, or direct from the
Sole Licensees and Manufacturers:*

DEARBORN LIMITED

37 GRAY'S INN ROAD, LONDON, W.C.1.

Patents pending in all the principal countries of the world.

890 Paraffinum Liquidum

*A White Oil that never
Clouds*

NO matter how cold it is,
"SPECIALTY DEPT."
890 Liquid Paraffin *never*
clouds, and its quality never
varies.

It is by far the most satis-
factory to use because of
these two most important
factors.

The limit of organic im-
purity is accurately con-
trolled and maintained by
standard tintometer figure.
The B.P. leaves this impor-
tant control to a wide range
of colours.

Send for samples and
quotations before placing
your next order for Liquid
Paraffin.

PACKED GOODS.

All classes of Toilet and Medicinal Lines,
including Toilet Paraffins and Brilliantines,
Ointments, Cold Creams, Petroleum Jellies,
etc., in most attractive packings at extremely
fine prices. Send for Price List.

Specialty Dept.
Anglo-American Oil Co. Ltd.
1, Albert Street
Camden Town, N.W.1



The HENNA CULT

of Hair Beauty, based
on the famous

EVAN - WILLIAMS

ORIGINAL

HENNA SHAMPOO

daily extends its boun-
daries, and is now a
subject for popular
journalism.

It pays to sell this famous line.

You will find full details of terms and
prices in the current issue of "THE
SHAMPOO SALESMAN," a copy of
which is gladly sent on request.

Be sure to order

THE EVAN WILLIAMS ORIGINAL
Henna Shampoo

Wholesale only:

THE EVAN-WILLIAMS CO., LTD.
18 Ogle Street - LONDON, W.1.

The most wonderful seller in the world.

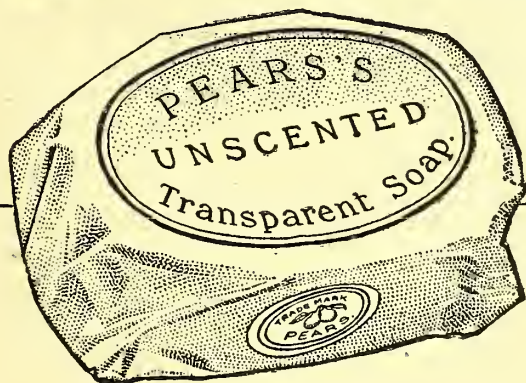
There is no commodity in the world that, in its own line, can claim such a distinguished position as Pears' Transparent Soap. Pears is so universally admitted to be the best toilet soap that even those who do not use it now will eventually be persuaded to do so by those who have proved its excellence. Pears' Transparent Soap on your counter and in your window not only sells so readily that its own overhead expenses are reduced to vanishing point, but it also attracts the casual public to your establishment and increases your sale of other goods that have no connection with soap at all.

Pears' Golden Series, comprising every necessity for the toilet of woman or man, has caught the public fancy completely. It sells on sight and you are missing profitable business if you do not stock it.

Let

Pears'

increase your business

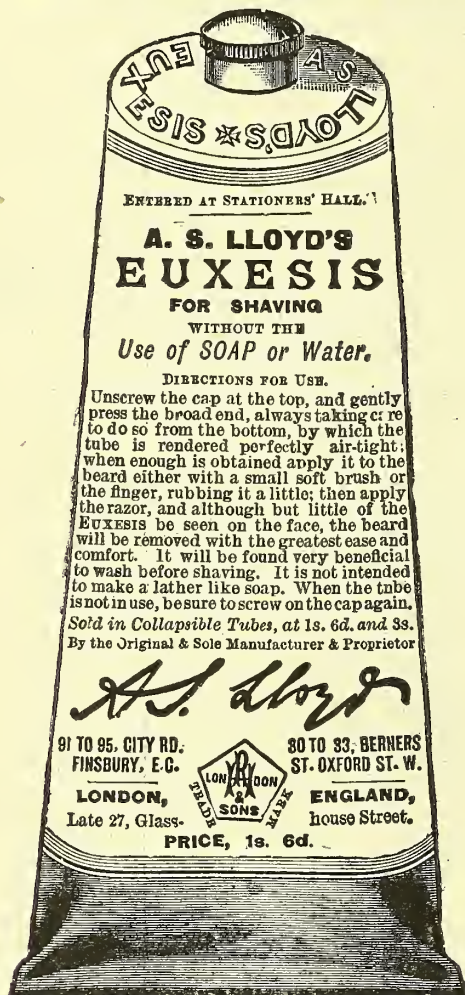


A. & F. PEARS, Ltd.,
71-75, New Oxford Street,
LONDON, ENGLAND.

A. S. LLOYD'S EUXESIS

(THE GENUINE).

For Shaving without Soap, Water, or Brush.



Sold by all Perfumers and Chemists throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-Mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY and may be obtained at either of our Warehouses.

PRICES ON APPLICATION.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as illustration.

Proprietors: **R. HOVENDEN & SONS, LTD.**

LONDON: 29-33 Berners Street, W.1; and 89-95 City Road, E.C.1

NOW
SELLING
EVERYWHERE
to Purchasers of Powders
and Face Creams.

KemOlite

Nature's Own Radio-Active Beauty Aid

A MONEY-MAKER FOR CHEMISTS

Because every Pot sold sells more.

TERMS: Selling Price 6/6,
Trade Price 54/- per dozen.
19/6 Bonus (3 Pots) with
every 3 dozen order.

Sales Agents: **PENNEY & CO.,**
Cavendish House,
Old Cavendish Street,
LONDON, W. and
Bigg Market,
NEWCASTLE-
ON-TYNE.

Also All
Wholesalers.



LEICHTNER'S

GREASE PAINTS

POWDERS

Etc.

Obtainable from
your Wholesalers,
or direct from

VANITIES LTD.

(Sole British Agents),

15a WHITCOMB STREET, LONDON, W.C.2

Watch the Sales Grow

It is Snowfire all day and every day when people know you sell it. A wonderful skin soother—nothing like it for chapped hands; rough skin and cracked lips. Far better to use and more profitable to sell than any 1d. or 2d. article, but doesn't affect sales of expensive creams.

Snowfire

TABLET

Write for Terms to-day:
F. W. HAMPSHIRE & Co., Ltd.
Riverside Works, Derby.



A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

CAUTION.

The Labels on GENUINE EUXESIS bear two signatures—
A. S. Lloyd in Black Ink, and that of his Widow,
Aimée Lloyd, in RED. Refuse any other.

Sole Manufacturers and **AIMÉE LLOYD & CO.**
Proprietors:
PANTON STREET (formerly named Spur Street),
HAYMARKET, LONDON, S.W.

When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

TWO VERY POPULAR LINES

SILKODONO

for the HAIR & SCALP

When you stock Silkodono and Shonpone you are assured of profitable and recurring sales. Demand has been fostered by extensive advertising in leading newspapers and magazines and by distribution of thousands of Free Samples.

Silkodono and Shonpone always give satisfaction to your customers as they do everything we claim for them and in addition represent particularly good value.

Not only do we give you very favourable terms on these two lines but to further aid your distribution we supply beautiful Showcards, Dummy Cartons, Handbills, etc., all free upon request. Why not have your share of these profitable sales?

SILKODONO BONUS TERMS for this Month.

1/6 SIZE	6 Bottles extra with orders for 3 dozen.
Wholesale Price, 12/- per dozen.	Net Profit 27/- on Outlay of 36/-
2/6 SIZE	6 Bottles extra with orders for 3 dozen.
Wholesale Price, 20/- per dozen.	Net Profit, 45/- on Outlay of 60/-
4/6 SIZE	6 Bottles extra with orders for 3 dozen.
Wholesale Price, 36/- per dozen.	Net Profit 81/- on Outlay of 108/-

SHONPONE BONUS TERMS for this Month.

Shonpone Sachet, wholesale 2/6 per dozen, to sell at 4d. each. We will supply as a trial order three dozen Sachets for 7/6, and include 6 Sachets absolutely free of charge and post paid. Dainty Cartons to hold four Sachets will be sent on request. 4d. Sachet, free of charge, sent for testing.

AND

Shonpone

SACHETS

for Washing the Hair

Shonpone Shampoo Sachets are creating a steady demand which it is well worth your while to cultivate. Its delicious perfume and refreshing effect after use will give it a world-wide popularity. Dainty cartons will be sent on request. These make effective Window Displays. If you would like to test the virtues of Shonpone yourself we will willingly send you a 4d. Sachet, FREE OF CHARGE.

SILKS TOILET CO.
8-9 Red Lion Street, HOLBORN, LONDON, W.C.1.



Nuctone

Regd.



Special Bonus scheme for Window & Counter Display

(Open till 10th Dec.)

3 doz. order

2 Bottles Free=

13/-

6 doz. order

4 Bottles Free=

26/-

Order through your Wholesale House.

BONUS QUANTITY will be sent direct from Stewart, Goodall & Dunlop, Ltd., with Window Cards, etc.

Has Solved the Grey Hair Problem

NUCTONE is the discovery of an eminent Hair Specialist. Restores the colour gradually, permanently, safely. Guaranteed free from any injurious ingredients such as sulphur or lead.

Adds greatly to Saloon Returns

NUCTONE Grey Hair Treatment is proving a lucrative addition to the business of every Hairdresser who has adopted it. Send for free booklet, which contains full details and instructions.

Retail Price 6/6 per Bottle

Manufactured by—

Stewart, Goodall & Dunlop, Ltd.
4 Dering Street, LONDON, W.1

Stocked by Leading Wholesale Houses.



Parfumerie

Bourjois

Paris

The Celebrated

Ashes of Roses

(Solid Face Powder)

Price: 15/- per doz.

P.A.T.A. Price: 1/9 per box.

A. Bourjois & Cie, Ltd., 66 Carter Lane, London, E.C. 4.

Also manufacturers of the famous POUDRE de RIZ de JAVA { No. 45, 10/- per doz. P.A.T.A. 1/3 per box.
No. 495, 7/- per doz. P.A.T.A. 10½d. per box.

A REMARKABLE ADVERTISING CAMPAIGN THAT BRINGS CUSTOMERS TO YOUR DOOR

Ever-Increasing Demand for EDWARDS' "HARLENE-HAIR-DRILL" TOILET SPECIALITIES

THE extensive and intensive advertising campaign constantly running in connection with "Harlene" continues and will continue to draw immense response from all over the country. Thousands of Free Trial Gift Parcels are dispatched to new applicants every day, thus increasing the already colossal retail business.

Do you stock the following "Quick Sellers" ?

- | | |
|--------------------------|--------------------------|
| "Harlene" for the Hair | "Astine" Vanishing Cream |
| "Uzon" Brilliantine | "Astine" Tooth Cream |
| "Cremex" Shampoo Powders | "Astine" Shaving Stick |
| "Astol" for Grey Hair | "Astine" Nail Cream |

No Chemist or Store can afford to be without this Unique Line of Toilet Preparations.

Every day "Harlene Hair Drill" becomes more popular and every day the demand for "Harlene" preparations becomes greater. Don't be behind the times and turn away good business because you have not got sufficient stocks.

PLACE YOUR ORDER TO-DAY.

"HARLENE HAIR DRILL" is **EVERYONE'S** Toilet Exercise because it requires so little time to produce beneficial results

"HARLENE HAIR DRILL" preparations should be stocked by every **CHEMIST AND DRUG STORE** because it is **EVERY-ONE'S** Toilet Exercise.



Write for Particulars, Terms, etc., to—

EDWARDS' HARLENE, Limited

20, 22, 24 & 26 LAMB'S CONDUIT STREET, LONDON, W.C.1.

Specify when ordering :—

"ENGLISH PROPHYLACTIC"

**"ADDIS in
the Blue Box"**

**WILL NOT COLLAPSE IN HOT
WATER**

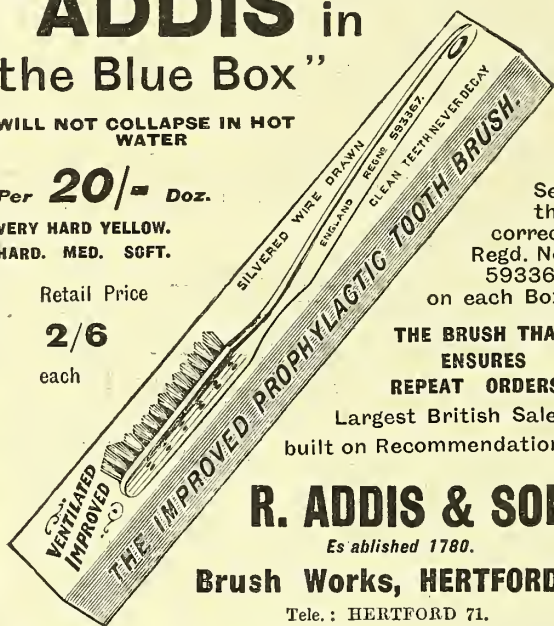
Per **20/-** Doz.

**VERY HARD YELLOW.
HARD. MED. SOFT.**

Retail Price

2/6

each



See
the
correct
Regd. No.
593367
on each Box.

**THE BRUSH THAT
ENSURES
REPEAT ORDERS.**

Largest British Sales
built on Recommendation.

R. ADDIS & SON

Es ablished 1780.

Brush Works, HERTFORD.

Tele. : HERTFORD 71.

**OLDEST FIRM OF TOOTH BRUSH MANUFACTURERS
IN THE WORLD.**

Sold by the following Wholesale Druggists :—

LONDON.

Amor, W. W., Son & Co.
Barclay & Sons, Ltd.
Butler & Crispe
Baiss Bros. & Co.
Britton, Malcolm & Waymark, Ltd.
Bourne, Johnson & Co., Ltd.
Geo. Curling, Wyman & Co.
Dakin Bros., Ltd.
Edwards, W., & Son
Ferber, Robt., Ltd.
Galen Manufacturing Co., Ltd. [Ltd.
Hewlett, C. J., & Son
Healey, Royle & Co.
Hay, J. B., & Co.
Higgins, G. & Co.
May, Roberts & Co. Ltd.
Newbery, F., & Sons Ltd.
Osborne, Garratt & Co., Ltd.
Reuter, R. J.
Rippin, J.
Sangers [Ltd.
Schulze, F., & Co.,
Solport Bros.
Sutton, W., & Co.
Taffs, H. F., & Co.

BIRMINGHAM.

Parton, Son & Co., Ltd.
Southall Bros. & Barclay

CARDIFF.

Newbery, F., & Sons, Ltd.

GLASGOW.

Burns, Petrie & Co.
Lorimer & Moyes, Ltd.
Munro, M'Laren & Sutherland.

HULL.

Sayers Silcox, Cuzner & Co., Ltd.

LIVERPOOL.

Ayrton, Saunders & Co., Ltd.

MANCHESTER.

Clunie & Co.
Chemists' Sundries, Ltd.
Harper, C. W.
Harrison, Chas., & Sons
Heath Bros.
Millner, R. M.
Place & Co.
Quilliam, J., & Co.
Woolley, Sons & Co. Ltd.

NEWCASTLE.

Hall Forster & Co. Ltd.

WARNING.

The **"PROPHYLACTIC" TOOTH BRUSH**, manufactured by **ROBERT ADDIS & SON**, is protected by law : Reg. No. 593,367. We have instructed our solicitors to take action against any person manufacturing or selling, by wholesale or retail, brushes infringing our rights. Chemists having any doubtful stock should return same to the firm they have purchased them from, unless bearing Reg. No. 593,367.

CORRUGATED PAPER, BOXES & PACKINGS FOR ALL PURPOSES

Waterproof Papers, Gummed Paper Tapes, etc. etc.

ENQUIRIES SOLICITED.

Telegrams :
"Corrugated."

THE CORRUGATED PACKING MATERIALS CO., LTD.
West Mill, Oxford Street, Ashton-under-Lyne.

Telephone :
576 Ashton-under-Lyne.



**GLASS
BOTTLES**

Medical Flats, Panels, Vials, Poisons.

Kalis, Limes and Feeders.

Wholesale and Export.

Samples and Prices on application.

FARROW & CO., 87 Borough High St., LONDON, S.E. 1.



This 7/6 Bottle of Spinelly Perfume Free

to every Buyer of the Luxurious Aréco Beauty Box

which contains a complete Areco Toilet Set of eight full-size Exquisite Toiletries. ARECO, the French Toilet Preparations which have given beauty to the womanhood of France and drawn unstinted praise from the world-famous Pavlova, Delysia, Karalli, Spinelly, and all noted Parisian Beauties.

ARÉCO BEAUTY BOX

Creme Fiamette

Parisian Vanishing Cream.
No. 1 Face Powder

Distinctively Perfumed.
Henna Shampoos

for Beautiful Hair.
Le Secret de Fiamette

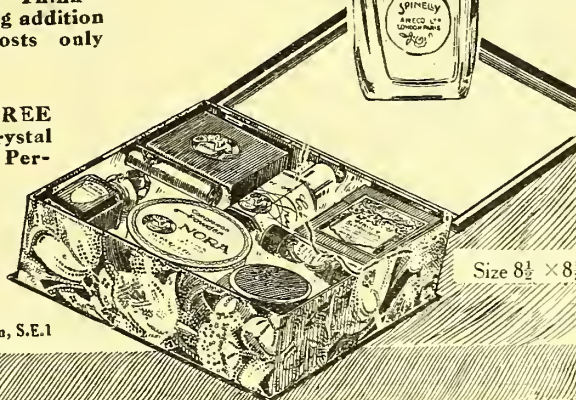
brings the Bloom of Youth.
All these dainty Areco Preparations nestling in a beautiful floral designed casket. Think—what a beautiful gift; what a pleasing addition to the dressing-table—yet it costs only

10/-

Think, too, of the dainty full-size FREE GIFT—a full-sized Cut-glass Crystal Bottle of the fascinating Spinelly Perfume, named by the renowned Actress. But, remember, offer remains for a short time only. BE IN TIME; act now.

From all leading Chemists
or Stores, with gift.

ARECO SALES OFFICE: 18 Southwark St., London, S.E.1



Reprint of Advt. in our Xmas Press Campaign.

TRADE PRICE 72/- DOZEN
(WITH SPINELLY PERFUME) CARR. PAID.

We started our Press Campaign in the *Daily Mirror* last Saturday, and the demand is strong—as it should be—for such an attractive line.

SEE THE BOXES AT OUR STAND
AT THE MANCHESTER EXHIBITION

Selling Agents:

BOYD, WILSON & CO., LTD.,
18 Southwark Street, S.E.1.

Telegrams: "Chelbayne, London." Hop. 1551



This flashing Sign, 16 in. diameter, is given away with each dozen Boxes, and £5 assortment of the "Areco" Series.

DANGER-FREE -SHAVING-

SCIENTIFICALLY
STERILIZED
ALL BRITISH
BRUSH

Deadly Anthrax, present in so many foreign Shaving Brushes, can never be found in an all-British guaranteed "Culmak"—says eminent Bacteriologist. Every bristle sterilized by most powerful germicide. Set, in "Celsit" unbreakable germ-proof handle. Buy one, and enjoy danger-free shaving at last.

"Culmak"

SHAVING STICK
STERILIZED TOO!

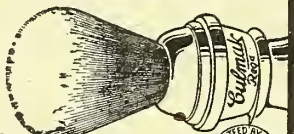
"Culmak" Shaving Stick—a lovely, easy-shaving soap immediately sterilizes any razor-cut or broken pimple, guarding your skin against air-borne infection. Sold in tins.

USE BOTH & LAUGH AT GERMS!

All up-to-date Chemists and Stores sell "Culmak" guaranteed sterilized Brushes and Shaving Sticks.

Explanatory leaflets free from:—

"CULMAK," 60, DURHAM ROAD, LONDON, N.7



3/6
EACH &
UPWARDS



THIS
ADVERTISEMENT is con-
sistently appearing in the following
well-known Journals :

STRAND—NASH'S—LONDON—WINDSOR—
PEARSONS—CHAMBERS—WIDE WORLD—
BLACKWOOD'S—PUNCH—LONDON OPINION
JOHN O' LONDON—BRITISH WEEKLY—ETC.

Total Circulation 1½ Million

**WE ARE RECEIVING LARGE NUMBERS OF
DIRECT ENQUIRIES FROM THE PUBLIC:**

'Culmak' Shaving Soap
IS PARTICULARLY IN GREAT DEMAND.

Both "Culmak" Brushes and Soap have been awarded the very
exclusive certificate of the Incorporated Institute of Hygiene.

SEND US YOUR NAME

stating if you stock both or either;
WE CAN SEND YOU CUSTOMERS.

"CULMAK,"

48-50 DURHAM ROAD,
LONDON, N.7.

SPONGES

OWING to the increase and continued development of their Sponge Department, the Soc. Anon. CHIAPAS have formed a Subsidiary Company, which will deal in future exclusively in Sponges, under the title of

**THE SPONGE FISHING
AND IMPORTING CO.**

The direction and management remains the same as hitherto, and the only change is practically in the name. Send your enquiries for prices and type samples as before to

**32 Queen Victoria Street,
London, E.C.4.**

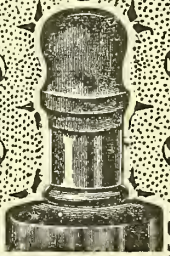
Telephone : City 5824.

G. B. KENT & SONS, LTD.

Are known the World over as
the Largest Manufacturers of

**BEST
BRITISH
BRUSHES**

Please write for full Particulars to—
75 Farringdon Road, E.C.1.



SELF-FIXING
HERMETIC
WASHABLE
BOTTLE CAPS
ARE
—ELEGANT—
—EFFICIENT—
—STRONGEST—
—CHEAPEST—
and BEST.

The VISCOSE
Development Co., Ltd.
BROMLEY :: KENT

**'SEMREH' SELF-FIXING
BOTTLE CAPS**

Whalebone HAIR BRUSHES



BEST
LONDON
MADE

Also
Polished Horn,
Fin Bone (Extra Fine Whalebone)

WHOLESALE AND EXPORT ONLY

Prompt Delivery.

Write for Prices and Samples.

The most complete Range in the Trade.

JOHN FREEMAN, 10 Moor Lane,
Brush Manufacturer and Importer. London, E.C.2.

Telephone : LONDON WALL 1656.

Factory : WALTHAMSTOW.

DEARBORN LTD

37 Gray's Inn Road,
LONDON, W.C.1.

Toilet Specialties.

	Price per doz.	Selling Price to Retailer P.A.T.A.
PILENTA SOAP ... A complexion soap.	10/-	1/-
PROLACTUM ... For the lips.	10/-	1/-
PARSIDUM JELLY ... For wrinkles.	10/-	1/-
ALLACITE OF ORANGE BLOSSOM ... A dressing cream.	22/6	2/6
BORANIUM ... A hair tonic.	22/6	2/6
CLEMINITE ... For a face lotion.	22/6	2/6
COLLIANDUM ... For a face tint.	22/6	2/6
PERGOL ... A deodorant.	22/6	2/6
TEKKO PASTE ... Camphor cream.	22/6	2/6
STALLAX ... For a shampoo.	22/6	2/6
JETTALINE ... For clearing the skin.	31/6	3/6
PHEMINOL ... A depilatory.	36/-	4/-
MENNALINE ... For the eyelashes.	36/-	4/-
MERCOLIZED WAX ... A face cream.	31/6	3/6
STYMOL ... For oily complexions and blackheads.	36/-	4/-
SILMERINE ... Hair-curling fluid.	22/6	2/6
BARSYDE ... Dandruff eradicator.	22/6	2/6
TAMMALITE ... For grey and faded hair.	22/6	2/6
LIQUID PERGOL ... To check excessive perspiration locally.	31/6	3/6
BICROLIUM ... For whitening the hands.	22/6	2/6
HARAPOSA ... Nut oil shampoo.	22/6	2/6
COCONOIDS ... For figure development.	31/6	3/6

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES	{ 36/-	4/-
For obesity.	58/6	6/6
SOFT PALERIUM...	45/-	5/-
For wrinkles.		
LIQUID NAIL POLISH ...	10/-	1/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

COLONIAL DEPOTS AND AGENCIES.

Australia: ALL WHOLESALERS, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
South Africa: LENNON Ltd, Cape Town, etc.
SIVE BROS. & KARNOVSKY, Johannesburg.
India: FRAMJEE & SON, Bombay.
SMITH, STANISTREET & CO., Calcutta.
New Zealand: SHARLAND & CO., Auckland & Wellington.
South America: DEARBORN (South America), Ltd., Calla Salta 264, Buenos Aires.
Straits Settlements & Federated Malay States: MEDICAL HALL, Ltd., Singapore.

Make Forhan's Your

Recommendation

You take the wisest course when you recommend Forhan's for the Gums as a dentifrice. Forhan's for the Gums is smooth and pleasant to use, contains no abrasive grit to injure enamel, keeps the teeth white and clean, the gums firm and healthy.

But Forhan's for the Gums also performs an even more important duty. Its timely and consistent use prevents the approach of Pyorrhea—that insidious disease of the teeth from which four out of five middle-aged persons suffer. Even where the disease is already active, it is a valuable adjunct to dental treatment.

Thos. Christy & Co.,
4-12 Old Swan Lane,
London, E.C.4.

Forhan's FOR THE GUMS

More than a tooth paste
—it checks Pyorrhea



The Real Stuff

MOORLAND Scotch Ginger Wine Essence is a most superior preparation. We feel sure that we have succeeded in producing a better line than any other on the market to-day. Most ginger wine essences are either too insipid or too fiery. Ours is not so, it has the real "gingery" taste, which warms you and has a most agreeable flavour.

The pack is unique, very attractive label, and a well finished white flint panelled bottle. "Show them and you'll sell them" is the slogan, & the profit is worth it.



PER GROSS	PER DOZEN	RETAIL
72/-	6/6	10½ ^D .

Winter Creams



IT is with every confidence that we recommend these Winter Skin Creams to you. They are "right" in every respect, and you can in turn recommend them to your customers and do really big things with them this winter.

They are excellent for chapped hands, frost bites, etc., and for softening and beautifying the skin. The get-up is most attractive and your profit is all that can be desired, and at the same time you are selling a really superior line.

Splendid show matter in three colours is sent free with all orders.

W.B. CARTWRIGHT LTD.
RAWDON LEEDS
Australia.
 207-209 CASTLE ROAD ST SYDNEY
 225, FLINDERS LANE, MELBOURNE
New Zealand.
 27, HENRIETTA ST. CHRISTCHURCH
 27, ALBERT ST. DUNEDIN

LONDON:
 37 Red Lion St.,
 High Holborn,
 Tel. Chanc. 7416

GLASGOW:
 Bath Chambers,
 65 Bath Street,
 Tel. Doug. 459

PER GROSS
72/-
PER DOZEN
6/6

MARSHALL'S

ORIGINAL

Lysol

Our consistent advertising is creating more and more demand for MARSHALL'S LYSOL—the standard product.

Pharmacists are reminded that a good article is always worth the money asked for it.

MARSHALL'S LYSOL retails at 1/-, 1/9, 3/- & 5/- per bottle. Bought on our Window Display Terms it yields a very satisfactory profit to the Retailer.

Cut prices mean cut profits, but not increased sales

Our prices are protected for our mutual benefit.
Send for list.



LYSOL LTD.
RAYNES PARK
LONDON, S.W.20



Here's the only Perfect Rubber Hot Water Bottle

EVERY time you sell a "Ronoleke" Hot Water Bottle you add to the goodwill of your business, for the simple and sufficient reason that you have supplied a superior article.

The patent neck of the "Ronoleke" is a great improvement, no wiring, no washing, and no leaking. Instead, there is a solid rubber neck built into the bottle itself. It is the only perfectly water-tight hot water bottle, and it is far stronger than other makes.

Display "Ronoleke" in your window, even if you give it but a small space. The advertising campaign will remind your customers repeatedly that the "Ronoleke" is the one they want. The campaign is concentrated in national newspapers chosen for their immense circulations.

Walking about your district will be many who have read the repeated advertisements, and they will be in a receptive state of mind, and your display will remind them that they can buy this better hot water bottle from you.

All prices protected by the P.A.T.A.

"Ronoleke"
TRADE MARK

£5 orders and
over less 5%
plus a further

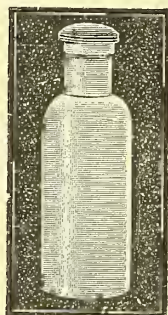
SIZE	Super Red		Drab	
	Wholesale Prices	Retail Prices	Wholesale Prices	Retail Prices
8 x 10	6/-	9/-	4/8	6/6
8 x 12	6/8	10/-	5/3	7/-
10 x 12	7/8	11/6	6/-	8/-

5% for prompt
cash.

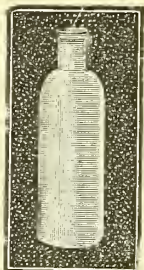
OBTAINABLE FROM ALL LEADING WHOLESALEERS

THE NEAT GLASS CONTAINER

is an important factor in the sale of your goods. We can fix you up with useful and attractive glassware if you will only let us know what you are requiring specifically. Do so NOW.



KALI.



LIME.

BOTTLES
Jars,
Chemical
and
Laboratory
Glassware

*in immense
variety.*



SHOPROUND



MEDICAL.

Established **JULES LANG & SON** Over 60 Years
Charlton Works - Charlton Place - Islington - LONDON, N.I.
(Opposite Agricultural Hall.)

Telephones: North 2770-2 (3 lines).
Telegrams: "ASSORTED, PHONE, LONDON."

Codes: A B C, 5th Edition. Scott's 10th Edition (1906).
Bentley's Complete Phrase Code.

WHEN ENQUIRING, PLEASE MENTION THIS PAPER.



GLASS BOTTLES

FULL RANGE OF

Medicals (plain and graduated),
Flat Dispensing, Panel Flats,
Poisons, Limes, Kalis, Emulsions,
Tobins, Vials, Tablets, &c. &c.

MANUFACTURED BY—

MONEY'S PATENTS, LTD.

111 Dalston Lane, LONDON, E. 8.

Phone: Dalston 1456.

Highest Quality
in

WHITE FLINT,
ACTINIC GREEN,
PALE GREEN,
AMBER,
BLUE.



LOWEST
PRICES.

BOTTLES

FOR ALL KINDS, WRITE TO— **FREDK. YOULDON** (Formerly Proprietor of E. YOULDON, Established 1840)
Phone: London Wall 3529. Portland House, 73 Basinghall St., London, E.C.2
Telegrams: "Youldon, Stock, London."

H. W. BOTTLES (GREY RUBBER)

"HOWARD BRAND."

English Make

6x8	6x10	10x8	12x8	12x10	(Approx.)
9 oz.	10 oz.	11½ oz.	12½ oz.	15 oz.	(Weights)
2/6	2/9	3/3	3/9	4/3	each.

RED—33½% on above prices.

COVERS—"Plush" or "Velours"

1/2	1/3	1/6	1/8	2/-	Velours.
1/2	1/4	1/7	1/10	2/2	Plush.

DISPENSING BOTTLES (GOOD YORKS. MAKE)

1 oz.	2 oz.	3 oz.	4 oz.	6 oz.	
11/-	12/-	13/-	13/-	15/-	gross.
8 oz.	10 oz.	12 oz.	16 oz.	20 oz.	
15/-	20/-	21/-	25/-	28/-	gross.

VIALS & HEX. POISONS can be had at very low prices with above in 5-6 gross assorted cases.

Dispensing Bottles, Vials and Poisons in 5 grs. assorted cases
CARRIAGE PAID up to 100 mile radius. CASES FREE.**THOS. SWALES**20-24 BUTTS COURT
& 89 ALBION STREET**LEEDS.****C. MELIN & CO.**

ESTABLISHED 1865.

7 INDIA ST., CRUTCHED FRIARS,
LONDON, E.C. 3.**VACUUM FLASKS****MEDICAL FLATS****GLASS AMPOULES****TUBES** PUSH-ON CAPS
AND CORKED**BOILING FLASKS**

AND BEAKERS

DRUGGISTS' GLASS**FILLERS** OR FUNNELSDIRECT FROM THE WORKS.
WHOLESALE AND EXPORT.**"BEATSON'S"****A. D.
1751***The House
for
Chemists' Bottles***BEATSON, CLARK & CO.**

LTD.

**GLASSWORKS,
ROTHERHAM.**

FOR 17 YEARS JOHN BONDS HAVE SAFEGUARDED YOUR PROFITS
AND WERE ONE OF THE PIONEERS OF PRICE MAINTENANCE

RECOMMEND

JOHN BOND'S "CRYSTAL PALACE" MARKING INK

A STRAIGHT 6d. & 1/- line that no one is allowed to cut.



6d. size in enlarged square
Bottle (as illustrated).

Shows distributors a good profit, and is the easiest to sell, and will always bring repeat sales. Every year the public buy more, and it is an article you can recommend with confidence. You can often suggest Marking Ink to customers, for it is one of the things every one requires, and should have by them. They will always take JOHN BONDS (Heat or Non-heat), which is warranted to fulfil every requirement.

YOUR WHOLESALE HOUSE KEEPS IT!

6d. size, 4/3 doz. (30% profit); 1/- size, 8/- doz. (33½% profit).

A Linen Stretcher and Special Marking Pen given with the 1/- size.

N.B.—WHEN ORDERING, PLEASE SPECIFY IF HEAT OR NON-HEAT IS REQUIRED.

WORKS:

75 SOUTHGATE ROAD,
LONDON, N.1.

Wholesale Terms.

Minimum—1 gross 6d., 44/- or
mixed order to same value; 1 gross
1/-, 80/-; subject to customary
discount on quantities. £2 4s. 0d.
and up carriage paid.

PHOTOGRAPHIC ENLARGEMENTS.

Quality Work at the Right Price.
Prompt Delivery. Good Profits.

TRADE LIST FREE ON REQUEST.

Wallace Heaton, Ltd.

17-27 CHANGE ALLEY, SHEFFIELD.

Drop a postcard for a 3d. and
6d. packet of

TOP-
HOLE **MINTS** (DOUBLE
STRENGTH)

A line that clashes with nothing else
you stock, hence every sale means
increased turnover.

Retail in 3d. & 6d. Cartons in smart show outers.

Profit over 33½% on turnover.

The GREENWICH LEMONADE CO.

(J. MILNER, M.P.S.).

11 JOHN PENN STREET, S.E. 13.

POSTCARD ENLARGEMENTS

1 dozen from the same negative

B. & W. 2/3 Sepia 3/-
per dozen per dozen

D. & P. 12-hour Service. Cheapest & Best.

Developing Roll Films

Printing

All sizes up to—

All sizes up to—

¼-plate, 6 or 8 exposures, 4d. 3½×3½ 1/2 per doz.

Postcard and 5×4 ... 5d. 4½×2½ 1/5 "

¾-plate and 7×5 ... 8d. ¼-plate 1/8 "

12 exposures, 50% extra. Postcard 1/11 "

SHAWYER & CO., SWINDON, WILTS.

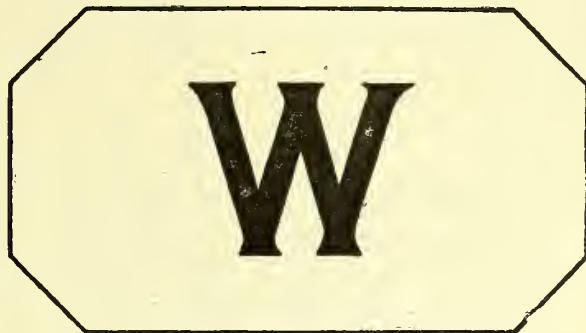
There's BIG MONEY in AMATEURS' ENLARGEMENTS

when done the unrivalled "Developprint" way.
Suggest to your customers turning their
best snapshots into pictures, and secure
good winter business when the ordinary photo-
graphic season is dead.

WRITE TO-DAY
FOR
DESCRIPTIVE
PRICE LIST.

GERALD MORRIS
KODAK SPECIALIST
ROCHESTER

(Regd. Trade Mark No. 26866.)



Dispensing Bottles

The therapeutic value of *suggestion* is recognised by medical science.

Your Dispensing Bottles should *suggest* to the patient the quality and virtue of your drugs.

Use, therefore,  Dispensing Bottles which for generations have been regarded as the best.

In ten different styles and in full ranges of sizes and graduations. Lettered with Chemist's name and address if so required.

Obtainable through all the leading dealers.

WOOD BROTHERS GLASS CO., LTD.
BARNSELY, ENGLAND.

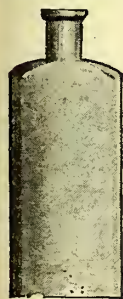
Established 1828.



B.C. Square. R.C. Square.



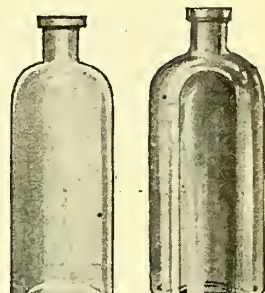
American Flat:



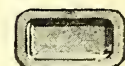
Oval Fronted Flat.



Octagon.



Oval. Oval, 1 Flat Side



B.C. Flat.



R.C. Flat.



Oval, 2 Flat Side.

HARVEY'S

Watts' Embrocation, or Curb Bottle.
Aconite Powders.
Worm & Condition Powders.
Watts' Red Lotion.
Hair-Restoring Ointment
Edos, or Tasteless Purgin Powder.

HARVEY'S

Great Remedies for the Horse

Protected Prices
(P.A.T.A.)

HARVEY'S

Koppos Powder.
Parasiticide.
Thrush Specific.
Hoof Ointment.
Hair Restorer (Human)

Of all the leading Druggists' Sundries Houses.

HARVEY & COMPANY, Ltd., Dublin.

"RODINE" IN IRELAND

In these troublesome times in Ireland, the two following testimonials received within a few days of one another prove conclusively that "Rodine" is the Rat Poison that matters where Rat extermination is necessary,

AND THE RAT POISON THAT IS IN DEMAND

Mr. J. M. Mangan, Chemist, Tralee, writes:—"29th July, 1922. I confidently recommend 'Rodine' to all my customers. It is a splendid article, and pays well."

Mr. S. J. Smiley, Chemist, Castletown, writes:—"2nd August, 1922. I could not afford not to stock 'Rodine' even if I had to pay 5/- and 10/- per dozen, and even then it bears good profit."



You can have "Rodine" on best terms at 4/-, 8/-, 16/-, 32/- per dozen. Minimum Carriage Paid Order £1 4s. This yields nearly 100% protected profit. Send your order now to the Maker—push "Rodine"—it pays.

HARLEY,
MANUFACTURING
CHEMIST,
PERTH - Scotland.

Continuous and Steadily Advertised Goods
FOR DESTROYING RATS AND MICE

DANYSZ VIRUS

Retail Price (protected).	Net Wholesale Prices.
Virus for Rats and Mice, single tube, 2/-	.. 15/- per doz.
3 tubes, 5/-	
Virus for Mice only - single tube, 1/6	.. 9/- " "
3 tubes 3/-	

Date-expired tubes returned to us postage paid will be exchanged free of charge.

Danysz Virus in Liquid Form

Retail Price.	Wholesale Price.
Quart Bottles 6/- each	4/6 each
Pint " 4/6 "	3/9 "

HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices 25% Monthly Account, or 33½% cash with order.

	Retail	Monthly a/c	Cash with order.
1/2 gall. tins	10/-	7/6	6/8
1 " "	18/-	13/6	12/6
5 " "	80/-	60/-	53/4

DANZO BEETLE POWDER

For destroying Blackbeetles, Cockroaches, Crickets, &c.			
Retail Prices (protected).	Wholesale Prices per doz.		
In tins 3d.	..	In boxes of 2 doz.	2/1
6d.	..	" "	1 " 3/8
1/-	..	" "	1 " 7/10
2/6	..	" "	1 " 18/-

Danzo Beetle Powder will not deteriorate by keeping.

CARRIAGE PAID ON ALL ORDERS.

To be obtained from

HALLER LABORATORIES, LTD.,
325 Borough High Street, LONDON, S.E.1

Telegrams: "Virudana, Sedist, London."

Telephone: Hop 2717

When you order Gummmed Labels specify Jones' Non-curling Pure Gummmed Paper

SAMUEL JONES & CO., LTD.,
Gummmed Paper Makers,
LONDON, E.C.

VANGE WATER

Beware of imitations offered at lower prices. To secure the genuine be sure to order "Vangeau," the bottle with the yellow label, the advertised brand, the one the public is demanding.

Trade Mark
"VANGEAU"
(Pat. applied for).

Two Sizes :
1/6 and 2/3
Wholesale :
13/4 and 20/- doz.



Stocks held by all the
leading Wholesalers,
including
Messrs. May, Roberts,
Sangers,
Butler & Crispe,
Hovenden,
Ingram & Royle,
Royle & Co.,
Etc., Etc.

One Chemist sold 482 bottles of Vangeau in one week, his profit was £16:1:4. His customers now come back for repeats. A huge advertising campaign is now in progress. Order from your wholesaler to-day, be in a position to meet the demand, and secure your share of the profits.

SPECIAL WINDOW SHOW TERMS: 1 BOTTLE FREE ON EVERY DOZEN ORDERED. SHOWCARDS, POSTERS, AND LITERATURE DISPATCHED WITH EVERY ORDER.

Vange Wells, Vange House, Hockley, Essex.

Phone: Southend 875.

WHOLESALE ONLY.

Wires: "Vangewells, Hockley, Essex."

Destroys
Germs.



Approved
by
Eminent
Bacteriologists.

World's Greatest Atmospheric Disinfectant.

USED DAILY FOR SPRAYING OFFICES, FACTORIES, INSTITUTIONS AND THE HOME.

Complete Outfits Consisting of Sprayer, Filter Funnel, and Size (a) Container sufficient to make 2 Gals.
£1 1 0

Refills.
Size (o) 6/9
,, (a) 12/6



(Awarded the Order of Merit by the Council of the Institute of Hygiene.)

Ideal Reform Outfits consisting of -Nickel pump Sprayer, Filter Funnel and Concentrated Essence to make 1 qt. **6/6**

Refills.
Size (b) 17/6
Trial bottles 1/9

LIBERAL TRADE DISCOUNT

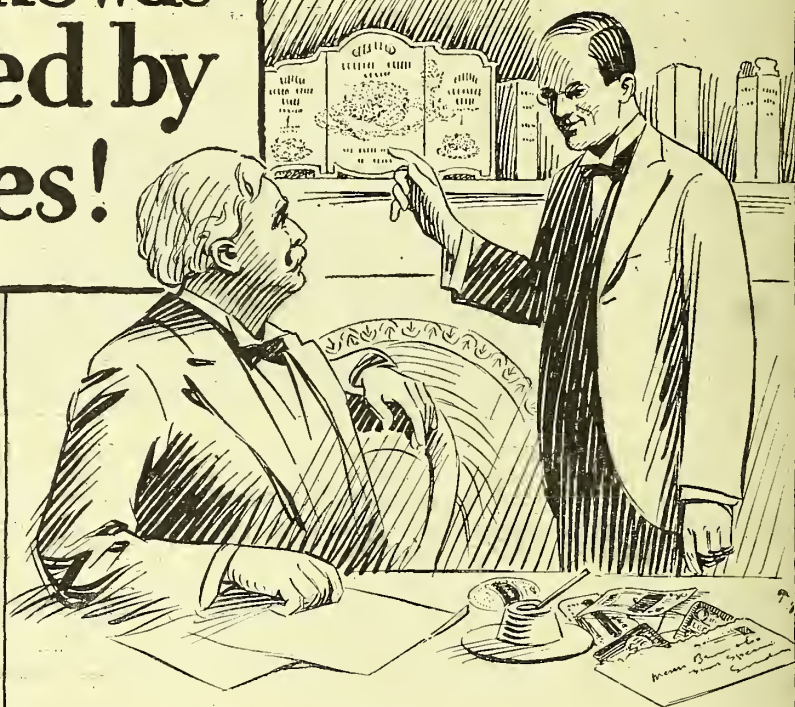
United Laboratories & Chemical Co. LTD.

Regd. Office: 97 Queen Victoria St., London, E.C.4 Laboratories: Causeway House, S.E.1

"TREATISE ON THE HOUSE-FLY."—A scientific and interesting pamphlet just published, 3d. Post Free.

EXPORT ENQUIRIES
INVITED FOR
**SPRAZONE (Standard)
ATMOSPHERIC
DISINFECTANT.
SPRAZONE (FLY)
SOLUTION.**
Foreign Agencies Entertained.

This one was printed by Waides!



*We Specialise
in Printing*

LABELS
CARTONS
SHOW CARDS
ENVELOPES . .
BAGS
WRAPPERS . .
WINDOW BILLS
EVERY DESCRIPTION
OF
COUNTER BOOKS
AND LEDGERS.

*Before placing your next order for
Printing there are three points
well worth your consideration :*

Are you getting value for your money ?

Is your Printing partly responsible for
selling your goods ?

Does Good Printed Matter Pay ?

¶ Our Printing is reputedly the finest that long experience and modern methods can produce, and our charges are keenly competitive. When you need an intelligent interpretation of your Printing orders, COME TO US.

LET US ESTIMATE FOR YOUR NEXT ORDER.

**THOMAS WAIDE
& SONS Ltd.**
(THE CHEMISTS' PRINTERS) LEEDS



**EVERYBODY
HAS COLDS —**

*—So everybody is a
Possible Customer*

EVERYBODY a "possible"—yes
—but "Vaseline" Capsicum Jelly has,
by its reputation and its advertising, made
thousands of people certain and regular
converts to its use. There are hundreds
in your district who know the value of
"Vaseline" Capsicum Jelly for colds,

rheumatism, and kindred troubles.
Think what the demand will be very soon!

Winter's fogs and cold will bring their season-
able ailments. People will want "Vaseline"
Capsicum. See that you are ready to supply
them

CHESEBROUGH MFG. CO. (Consd.)
LONDON, E.C.1

TRADE **Vaseline** MARK
CAPSICUM
PETROLEUM JELLY

YOU
SHOULD
ALSO
STOCK:—

"VASELINE" PETROLEUM JELLY
in original containers.

The preparation with a thousand and
one domestic uses—invaluable for cuts,
:: :: burns, bruises, etc. :: ::

"VASELINE" CAMPHOR ICE

The popular skin softening preparation.
For chapped and roughened skins.

Price 25s. net.

Chemists, 23s.

Post Free (inland) 24s.

Reprint of Nineteenth Edition.

SQUIRE'S COMPANION

TO THE

BRITISH PHARMACOPŒIA, 1914.

Published by J. & A. CHURCHILL,

7 Gt. Marlborough St., W.1.

The Pharmaceutical Journal says—"A companion, in the true sense of the word, to the official book."*The Chemist & Druggist* says—"It maintains its unique position as a national work of reference."*The British Medical Journal* says—"No labour has been spared to make the COMPANION a complete, scientific and practical adjunct to the BRITISH PHARMACOPŒIA."*Descriptive leaflet gratis.*

Price 12s. 6d. net.

Post Free (inland) 13s. 2d.

2nd Edition (Revised).

SQUIRE'S POCKET COMPANION

TO THE

BRITISH PHARMACOPŒIA, 1914.

Published by J. & A. CHURCHILL,

7 Gt. Marlborough St., W.1.

The Chemist and Druggist says—"The richness of the book in Chemical, Physical and Pharmaceutical data, in Compounding Hints, in non-official Formulas, makes the Pocket Companion of as much value to Dispensers as to Prescribers."*The British Medical Journal* says—"Sufficient has been said to show that the contents of this Pocket Companion fully justify its name; it can be strongly recommended to practitioners."*The Lancet* says—"The Pocket Companion shows evidence of considerable judicious forethought in the selection of data likely to be of service to a wide class of readers."*Descriptive leaflet gratis.*

SQUIRE & SONS, Ltd., 413 Oxford St., London, W.1

The King's Chemists.

London College of Pharmacy

Principals:

H. WOOTTON, B.Sc. (Lond.) C. W. GOSLING, Ph.C.

MAJOR AND MINOR

Next Courses commence JANUARY 9.

MATERIA MEDICA HABITAT MAP.

New Edition. Post Free, 2/6

Write: The Secretary, 361 Clapham Road, S.W. 9

WESTMINSTER COLLEGE OF PHARMACY.

Principals { G. S. V. WILLS, Ph.C. (Founder).
P. H. WOODNOTH, Ph.C., F.C.S.

**A Six Months' Course will commence
on JANUARY 2, 1923.**

*For Details of Arrangements, apply to the Principals,
190 CLAPHAM ROAD, S.W.9.*

MANY SUCCESSES IN THE EXAMINATIONS!

Your Opportunity to

QUALIFY IN OPTICS

PRACTICAL WORK. Students taking the Course may receive personal tuition in the practical work AT ANY TIME DURING THE COURSE.

Expert Tuition for the SIGHT-TESTING DIPLOMAS of the Worshipful Company of Spectacle Makers (F.S.M.C.); the British Optical Association (D.B.O.A.), or the National Association of Opticians (F.N.A.O.).

Write for full particulars—

C. A. SCURR, M.P.S., F.S.M.C., F.I.O., F.N.A.O., etc.
64 High Street BARNET

Liverpool School of Pharmacy

2 BLACKBURNE PLACE.

Principal—H. HUMPHREYS-JONES, A.I.C., F.C.S., Ph.C.

Assisted by I. BUTLER, B.Sc. (Hon. Chem.), M.P.S.

Full particulars from Principal



Your customers know the worth of a reliable high-class toilet preparation for use in the winter months. That is why they ask for

'HAZELINE' CREAM

(Trade Mark)

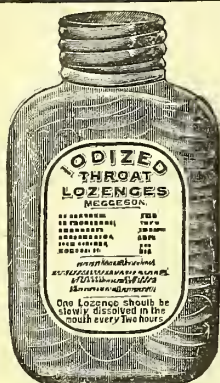
They have tried it and proved its value as a skin beautifier. This means repeat sales. You can take your share of repeats by displaying 'HAZELINE' CREAM prominently in your pharmacy and window.

Ask us for showcards to help your sales of this fine toilet article.

'Hazeline' Cream in collapsible tubes of two sizes, at 7/6 and 15/- per doz., respectively, and in handsome glass pots, at 15/- per doz. (subject to usual terms),



BURROUGHS WELLCOME & CO.
LONDON



Iodized Throat Lozenges

(MEGGESON)

A SALEABLE, SEASONABLE AND PROFITABLE LINE
NOW IN GREAT DEMAND.

P.A.T.A. **1/3**

Showcards, Showboxes,
and a Bonus of 1 dozen
with each gross.

9/- dozen.
108/- gross.

CARRIAGE PAID.



Established over
100 years.

MEGGESON & CO. LTD., BERMONDSEY, LONDON

The *Lancet*
describes it as
"Mr. Benger's
admirable pre-
paration."

**FOOD FOR
INFANTS**



Wholesale of all Wholesale Houses and Shippers
or from the Manufacturers

BENGER'S FOOD LTD., Otter Works, MANCHESTER, Eng.

Branch Offices at: 117 Pitt St., Sydney, Australia; 90 Beekman St., New York, U.S.A.
Canadian Agents: The National Drug and Chemical Co., Ltd., Montreal and Branches.
SHOWCARDS AND HANDBILLS ON APPLICATION.

The *British Medi-
cal Journal* says:
"Benger's Food
has by its excel-
lence established a
reputation of its
own."

**INVALIDS
AND THE
AGED.**

If you searched
all round the
Trade

YOU COULD NOT
FIND BETTER
OR MORE UNIQUE

NOVELTIES

Why not send

a postcard and get
the illustrated leaf-
lets, or, better still,
avail yourself of our
little parcel contain-
ing a little of every-
thing. You will be
bound to want more
and that very short-
ly. Time is short
so order *now*.

**THE WHOLE TRY
OUT LOT
COSTS 40/- ONLY
CARRIAGE PAID.**

Thos. Christy & Co., 4/12 Old Swan Lane, E.C. 4



WEEKLY JOURNAL OF PHARMACY AND OF THE CHEMICAL AND DRUG TRADES

THE CHEMIST AND DRUGGIST is in circulation and reputation as the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the various Dominions.

SUBSCRIPTION RATE

TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist* *Diary*. Subscriptions may begin with the first issue of any month. Single Copy, 9d., post free; *Diary*, 10s., post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martins, Ltd."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 20s., franco.

TERMS FOR ADVERTISING may be obtained on application to the Publisher.

Head Office: 42 CANNON STREET, LONDON, E.C.4

Telegrams: "Chemicus, Cannon, London." Telephone: Central 3617 (3 lines).

Branch Offices: 49 County Buildings, 4 Cannon Street, Manchester. (Telephone: City 52.) Melbourne and Sydney, Australia.

Contents		
No. 22	Series 2235	Vol. 97
Business Changes	734	
Chemical Society War Memorial	735	
Chemists' Windows	746	
College Notes	745	
Coming Events	736	
Correspondence: Letters	755	
Legal Queries	756	
Miscellaneous Inquiries	756	
Deaths	755	
Editorial Articles: Insulin Diabetes Treatment	738	
Income-tax	739	
"Dangerous" Drugs in Sweden	740	
Vaccine for Insured Persons	740	
Year-Book of Pharmacy	740	
Drug Imports into Mexico	740	
English News	721	
Festivities	744	
Information Department	736	
Insurance Act Dispensing	746	
Irish News	723	
Legal Reports	724	
Manchester Chemists' Exhibition	725	
Marriages	735	
New Companies and Company News	724	
Observations and Reflections	737	
Oxalic Acid Inquiry	747	
Parliamentary Election	734	
Personalities	735	
Pharmaceutical Society of Great Britain: Kendal Branch	744	
Pharmaceutical Society of Ireland: Council-meeting	741	
Retail Pharmacists' Union	731	
Retrospect	756	
Reviews of Books	745	
Scottish News	723	
Trade-marks	742	
Trade Notes	736	
Trade Report	750	
Wills	721	
Winter Session	745	
Western Pharmacists' Dinner	732	

Wills

MR. EDWARD WILLIAM TAYLOR JONES, F.I.C., The Oaks, Penn Road, Wolverhampton, Public analyst, who died on February 19, left estate of the gross value of £468 16s. 2d., with net personalty £5,273 3s. 9d.

MR. WILLIAM GODSON LITTLE, Buckingham House, Northampton, director of Morris, Little & Sons, Ltd., chemists, who died on July 11, left estate of the gross value of £167,710 12s. 11d., with net personalty £124,610 9d. Probate of his will has been granted to his son-in-law, Mr. Francis Stanley Lowe, Shiplake, and his cousin, Mr. Ernest Henry Godson, solicitor, Slough. Among the bequests are £500 to his employee, William James Mitchell; £250 to his employee, William Swift; £100 to each of his employees, Thomas Russell and Arthur Fowell; 5,000 £1 shares in Morris, Little & Son, Ltd., to his son-in-law, Francis Stanley Lowe, and appointed him a director of this company, directing his executors to appoint another director; 1,000 £1 shares in his company to Paul Ewens.

English and Welsh News

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Dental Board

Applications for registration have been received from the following persons on the grounds that they are pharmaceutical chemists or chemists and druggists, and that immediately before July 28, 1921, they had a substantial practice in dentistry, in the course of which they personally performed such operations and gave such treatment, advice and attendance as are usually performed or given by dentists. Any objection to registration must be lodged within one calendar month from November 15, and must be supported by evidence sufficient to show a *prima facie* case against registration:—

Cole, William, 114 High Street, Cowes, I.O.W.
Dodds, Frederick William, Medical Hall, Crumlin, co. Antrim.
Hardy, Thomas, 91 Crosby Street, Maryport.
Jenkins, David Hyatt, 173 Bute Street, Treherbert, Glam.
Lomax, Fred Westby, 65 Bridge Street, Manchester.
McClelland, John, Ballyshannon, co. Donegal.
McMurray, Alexander Dickson, 152-4 Grosvenor Road, Belfast.
Smiley, Samuel John, The Square, Castlewellan.

Unlawful Possession of "Dangerous" Drugs

At Cardiff Police Court, on November 20, R. D. Hunter, Swansea, a company director, was remanded on a charge of having a quantity of cocaine in his possession.

At Hull Police Court, on November 20, when a marine engineer named Thomas was charged with being in unlawful possession of cocaine, the city analyst stated that the substance was novocain, and the man was discharged. The Court directed that the attention of the Home Secretary be called to the matter.

At Marlborough Street Police Court, London, on November 17, Helen Morton (Cissie Loftus) was charged on remand with being in unauthorised possession of two tubes containing morphine-and-atropine tablets, and two containing morphine sulphate tablets (*C. & D.*, November 18, p. 685). Another tube of morphine sulphate tablets, a hypodermic syringe, and a prescription (the authorship of which was not disclosed) were also mentioned in the opening statement for the prosecution as being found in possession of the defendant. Mr. Walter Frampton, for the defence, explained that sedatives had been given to his client some years ago after a serious operation, and that a habit had been established in consequence of recurring pain. The defendant was placed on probation for a year on the condition that she resided where she was directed.

Birmingham

The active support of the local business community has been enlisted by the Lord Mayor on behalf of his Unemployment Distress Fund.

The Birmingham stipendiary magistrate has announced that imprisonment without the option of a fine will in future be inflicted in cases of shoplifting.

Mr. J. S. Crooke, who was returned for the Deritend division of Birmingham at the general election, is the brother of Mr. C. G. Crooke, chemist and druggist, Coleshill.

Leicester

The prizes offered to pharmacy students at the Technical School have, for the first time, all been won by ladies:—1, Miss W. G. Snasdell, 77 per cent. of marks obtainable; 2, Miss M. S. Bonsor, 75 per cent.; 3, Miss D. M. Sharpe, 73.5 per cent.

With the object of raising £100 for the Leicester Royal Infirmary, the local staff of Boots, Ltd., arranged a whist drive and dance carnival at the De Montfort Hall on November 13. Messrs. Napier and Tomlin, backed by a committee of assistants, were responsible for the organisation, and Mr. Burton acted as M.C. Raffle prizes were given by local friends and tradespeople, and a large number took part in an enjoyable evening.

Liverpool

The Liverpool Pharmacists' Club, though homeless, is full of vigour, and a New Year programme may be expected.

Lord Leverhulme has promised to address the Liverpool Chemists' Association, on December 6, on "Personality in Business."

Things that happen in a Liverpool pharmacy. Enter a more or less perfect lady, holding up an old and discoloured sponge. The lady: I gave 5s. for this sponge when I bought it. Give me 4½d. Proprietor (in a sepulchral tone): Madam, the three brass balls are higher up the street.

The Chemists' Exhibition at Manchester has aroused much interest among pharmacists in Liverpool and the district. Among those attending on the opening day was Mr. John H. Robinson, who subsequently proceeded to Cornwall on a holiday. Mr. Harold Lomax and Mr. W. J. Tristram were also present.

Manchester

An exhibition of chemists' sundries and Christmas gift lines is being held at the Grosvenor Hotel by Mr. F. Naylor, representing S. Maw, Son & Sons, Ltd.

Sir William Beveridge, director of the London School of Economics, announced to a gathering of business men in Manchester on November 20 the coming inauguration of a trade barometric chart, by means of which traders would be able to study the reaction of one aspect of business upon another, and to foresee to some extent the fluctuations of trade.

In the course of a lecture before a joint meeting of the Society of Chemical Industry and Society of Dyers and Colourists at Manchester University, on November 17, Professor A. G. Green and Mr. K. H. Saunders gave a demonstration of dyeing a mixture of silk and cotton in two colours in a single dye-bath at the same time. (See *C. & D.*, I., 1922, p. 537.)

A new x-ray department was opened on November 18 by Sir Humphry Rolleston, President of the Royal College of Physicians, at the Manchester Royal Infirmary, which is claimed to have now one of the most fully-equipped departments of the kind in Great Britain. Sir Humphry pointed out that the Manchester Medical School now insisted on a course of radiology for every student.

Extended reference to the Manchester Chemists' Exhibition will be found on p. 725, *et seq.* Two kinds of publicity were planned and carried out by the local associations which had lent their names to the Exhibition. One was the distribution of a pamphlet at the stand of the Manchester Pharmaceutical Association. A suggestion as to the desirability of this kind of publicity was made in the *C. & D.*, 1918, p. 813, and it is pleasing to know that the suggestion has been carried out to such good purpose. The other kind of publicity was the use of practically a page of "The Manchester Guardian" of November 20 to expound the claims of the Exhibition in two columns of text flanked by advertisements. The letterpress is worded in a temperate, dignified and interesting way, and, save for one or two trivial errors of fact, is a model of what such an *apologia* should be. A feature of the trade attendance on the second day was the number of chemists from Ireland present.

Sheffield

Several cases of shopkeepers being open after closing time have recently been dealt with at the Police Court, a small fine being inflicted in most instances.

It is understood that Lord Crewe, who has been appointed Ambassador in Paris, will continue to hold the position of Chancellor of the University of Sheffield.

The displays of "wireless" apparatus at the establishments of Mr. Job Preston, Barker's Pool, and Wallace Heaton, Ltd., High Street, are attracting considerable attention.

The election results have caused somewhat mixed feelings. Mr. Arthur Neal has always been a supporter of chemists, while Mr. T. W. Casey is remembered in connection with the recent Pharmacy Bill.

Miscellaneous

SAFEGUARDING OF INDUSTRIES ACT.—The hearing of the complaint that sodium mono-phosphate, R. sodium di-phosphate, and sodium tri-phosphate have been improperly included in the list of articles chargeable with duty under Part I. of the Safeguarding of Industries Act has been fixed for Saturday, November 25.

COST OF LIVING.—It is estimated in "The Labour Gazette" that, on November 1, the average level of retail prices of all the commodities taken into account in Ministry of Labour statistics was about 80 per cent. above that of July, 1914, as compared with 78 per cent. on September 30, and 176 per cent. on November 1, 1920.

ROYAL VISIT TO WORKS.—On November 21 the Duke of York visited the works of the Gas Light and Coke Co. at Beckett, primarily for the purpose of emphasising his interest in the company's co-partnership scheme. The Royal visitor devoted a good deal of attention to the processes of obtaining chemicals from coal-gas residuals, and learned that twenty-six research chemists are engaged in perfecting dyes.

COMMERCIAL TRAVELLERS' BENEVOLENT INSTITUTION.—The seventy-third annual report of the Commercial Travellers' Benevolent Institution gives the income for the financial year ended October 31, 1922, as £20,021, and the expenditure as £17,377, comparing with £28,944 and £21,434 respectively for the previous year. Thirty-two annuitants passed away during the year, and the total sum paid to these was £13,760, in return for qualifying contributions of £723.

REPARATION DYESTUFFS.—In connection with the distribution of the dyestuffs which are being obtained from Germany as Reparation a list of the products comprised in the stocks now available has been prepared and may be obtained by all firms interested on application to the British Dyestuffs Corporation, Ltd. (Reparation Department), 70 Spring Gardens, Manchester. The Corporation will also be prepared to supply on application any further particulars, together with samples, etc., of the products available.

EXPLOSION INQUIRY.—In their report to the London County Council on the fatal explosion in a drug-store in Sidney Street, London, E. (*C. & D.*, November 11, p. 654), the Public Control Committee consider there is no doubt that the explosion was caused by friction during the mixing of potassium chlorate and sulphur. The circumstances pointing to the fact that the manufacture of fireworks was being carried on secretly, inquiries are to be made with a view to ascertaining the prevalence of the practice.

ATTEMPTED POISONING.—A further statement has been issued to the Press concerning the attempt made on November 9 to poison the Commissioner of the Metropolitan Police (*C. & D.*, November 18, p. 687). The statement includes the information that a cardboard box has been received at Scotland Yard having upon it the words, "Savon Bouquet de Lavande, Mme. Giraud et Cie, Limited, 182 Regent Street, London, W. Sole selling agents, Boots, the Chemists," and that certain chocolates examined contained "alkaline arsenic of the blue tint."

A WAGES QUESTION.—Publicity was given in the daily Press on November 15 and 16 to the possibility of a strike in the fine-chemical industry. For the employers it was stated by Sir William Glyn-Jones, secretary of the Drug and Fine Chemical Manufacturers' Association, that wages are revised four times a year, that his Association had approached the Workers' Union with a view of establishing an agreement prior to next revision, and that the Union did not reply until it was too late, the employers having met meanwhile. For the National Drug and Chemical Union it was stated by Mr. H. R. Nightingale, secretary, that the employers sprang a surprise on the Union.

LONDON HOSPITAL DENTAL SOCIETY.—At the dinner of this Society, held in London recently, Viscount Knutsford, who presided, referred to the new conditions in the dental profession. He said: "The dental profession is now protected as no other profession in England is

The provisions of the Bill which the Belfast Corporation intend to present to the Northern Parliament in the next session include requests for the following powers:—
to provide, manage and maintain shops and depôts for compounding, dispensing and supplying medicines and medical requisites and appliances, and

Legal Reports

Vanillin Insurance Claim.—In the King's Bench on November 14 Mr. Justice Bailhache gave judgment in a case in which La Fabrique de Produits Chimiques Société Anonyme, a Swiss company, claimed from an insurance broker for a loss of two cases of vanillin valued at £825, which were insured against theft, together with one case of caffeine valued at £275, the former being stolen whilst in the warehouse of the Lep Transport Co., to which company the goods had been handed for conveyance to Switzerland. Defendants claimed, first, that the loss was not covered by the policy, and, secondly, that on the 'average clause the intention was to have one indivisible insurance for the complete consignment, notwithstanding the separate values given to the different packages for the purpose of the particular average clause. Mr. Justice Bailhache ruled that the theft from the warehouse constituted a "theft by violence" as covered by the policy, notwithstanding that no assault on an individual had been committed. In regard to the average clause, he ruled that the goods, being of one class and having been separately valued, the loss was not a particular average loss of part of the goods insured, but a total loss of goods separately insured. Judgment was given for the plaintiffs, with interest from the date of the writ.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

ALPHA CHEMICAL Co., LTD. (P.C.).—Capital, £1,500. Objects: To adopt an agreement with H. O. Clarke, and to carry on the business of chemical and drug manufacturers, chemists, druggists' merchants and sundries, etc. The first directors are: H. O. Clarke, 4 Rugby Road, Brighton, and R. H. Andrews, 68 Munster Road, Fulham.

ALSPA, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturing chemists, dealers in chemical and other articles and commodities dealt in by retail chemists, etc. The directors are: P. Edgerton, 209 Castlenau, Barnes, and T. W. Greaves, Lewis House, Wrotham Road, Gravesend. R.O.: 643 Salisbury House, London Wall, London, E.C.

PRICE'S PURE DRUG STORES, LTD. (P.C.).—Capital, £1,300. Objects: To take over the business of Price's High Class Drug Stores, carried on at 103 Hillside, Stonebridge Park, N.W.10. The first directors are: W. Jee, 103 Hillside, Stonebridge Park, N.W.10, and H. M. Price, 1 Springwell Avenue, Harlesden, N.W.10. R.O.: 103 Hillside, Stonebridge Park, London, N.W.10.

SCOTT & SCOTT, LTD. (P.C.).—Capital, £1,000. Objects: To acquire the business carried on by Scott & Scott, Kingsway Hall, London, and to carry on the business of importers of and dealers in pharmaceutical, medical, chemical, industrial and other preparations and articles, compounds, oils, drugs, dye-ware, etc. Solicitors:—Richard Wilks, 25 Abchurch Lane, London, E.C.4.

UNITED AMMONIA DISTILLERIES, LTD. (P.C.).—Capital, £100. Objects: To carry on the business of ammonia and chemical manufacturers, chemists, druggists, drysalers and oil and colourmen, etc. The permanent directors are: J. F. R. Burnett, "Overlands," Coldharbour Lane, Bushey, Herts, and N. Wilton, Norfolk House, Stanmore, Middlesex. R.O.: 4 Regent Street, London, S.W.1.

HEALTH MACHINES, LTD. (P.C.).—Capital, £2,000. Objects: To carry on the business of electrical engineers, manufacturers of electrical apparatus and materials, manufacturing chemists and druggists, drysalers, etc. The first directors are: R. L. Urquhart, Tavistock Hotel, Covent Garden, W.C., and T. C. Hodgkinson, 35 Westcroft Square, W.C. R.O.: 35 Westcroft Square, Hammer-smith, London, W.

DAVID CHINKIN PHARMACIES, LTD. (P.C.).—Capital, £500. Objects: To acquire the business carried on by D. Chinkin at 26 Fieldgate Street, White chapel, E., and to carry on the business of chemists, druggists, drysalers, oil and colourmen, etc. The first directors are: D. Chinkin, 26 Fieldgate Street, E. 1, and W. G. Gill, 168 South Birkbeck Road, Leytonstone, E. 11.

SAMUEL JACKSON (ROCHDALE), LTD. (P.C.).—Capital, £3,000. Objects: To acquire the business of an oil refiner, manufacturing chemists, and cooper carried on by S. Jackson at 20a College Street, Rochdale, as "Samuel Jackson," and at Clark's Place, Rochdale, as "Clark Cooperage." The directors are: S. Jackson, 10 Ramsden Road, Wardle, near Rochdale; A. E. Webster, 56 Edenfield Road, Rochdale.

HUMAGSOLAN, LTD. (P.C.).—Capital, £5,250. Objects: To acquire the British rights of the preparation called "Humagsolan," and to carry on the business of manufacturers of and dealers in medicines, foods, drugs, chemicals, perfumes, pharmaceutical, medicinal, toilet and scientific preparations, apparatus and materials of all kinds, etc., and to adopt an agreement with R. Pintar, R.O.: Faraday House Charing Cross Road, London, W.C.

GWALIA MANUFACTURING Co., LTD. (P.C.).—Capital, £1,000. Objects: To carry on the business of soap and cleansing material manufacturers, importers and exporters of and dealers in all kinds of oils, oleaginous and saponaceous substances, dyestuffs, household, toilet and chemical requisites, etc. The first directors are: W. J. Evans, 67 Pen-y-Dre, Rhiwbind, Cardiff, and A. Carlton, 28 Rivers Street, Bath, chemist. R.O.: 28 Walcot Street, Bath.

F. E. HARRISON'S CHEMISTS, LTD. (P.C.).—Capital, £300. Objects: To take over the business of F. I. Harrison at Bridge End, Ferryhill Station, trading as "F. E. Harrison's Pharmacy," and to carry on the business of chemists and druggists, opticians, wine and spirit merchants, stationers, dealers in photographic goods, etc. The first directors are: F. E. and Mrs. J. Harrison, 12 Osborne Terrace, Broom, Ferryhill. R.O. Bridge End, Ferryhill Station.

"Y. Y." PILLS, LTD. (P.C.).—Capital, £7,500. Objects: To take over the business of patent medicine manufacturers and factors carried on by W. J. Baker and Eva P. Frisby at 2 Broad Street Place, E.C., as "The Y. Y. Health Remedies." The permanent directors are: L. Whitehead, "Shuna," West Byfleet; C. E. Collin, 86 Marine Parade, Brighton; W. J. Baker, The Hawthorns, Hopp Lane, Golders Green, N.W.; H. H. Lewis Valdis, Southcliff, Clacton-on-Sea; and F. G. Frisby, 41 Dingwall Road, East Croydon. R.O.: 2 Broad Street Place, London, E.C.2.

BARKERSHAW CHEMICAL Co.—A meeting of creditors will be held at 23 Bank Street, Bradford, on November 26 at 3 p.m.

SAPON SOAPS, LTD.—The petition of V. C. North and A. W. Hings, 76 Finsbury-pavement, London, E.C., carrying on business as chemical merchants under the firm name of V. C. North & Co., for the compulsory liquidation of Sapon Soaps, Ltd., came before Mr. Justice Lawrence, in the Companies' Winding-up Court, November 21. Mr. Johnston said it was the petition creditors for £292 in respect of goods supplied at damages for breach of contract. The company was hopelessly insolvent. The debenture holders had appointed a receiver, who stated that the company had no available assets, but petitioners were not satisfied with this statement, and desired a winding-up order so that the affairs of the company might be investigated. Mr. Cecil Turner for the company, said he could not resist the petition if it were pressed, but suggested that it would save expense if a meeting was immediately called to pass a resolution for voluntary liquidation on the admitted ground that the company was insolvent. Mr. Johnston refused this, and his Lordship made the usual compulsory order.

MANCHESTER CHEMISTS' EXHIBITION

November 20—November 25

to the visitor to Manchester the great bell that sounds the hours from the tower of the Town Hall, full-toned, neither dull nor harsh, and without suspicion of a flaw, symbolises the genius of the city. And not in commerce alone. Manchester science ranks among the best; and when Sir Edward Elgar, some time ago, fluttered Metropolitan dovescotes with the pronouncement that the musical treasure of this country lies "somewhere further north," everyone knew what he meant. With which we will to story.

The Manchester Chemists' Exhibition, let it be said at once, is ideally housed: the gangways are wide, enabling stalls to be seen to advantage, and everything exhibited is on one floor. The orchestral band of the Royal Marines (1st Chatham Division) discourses excellent music under the conductorship of Lieutenant Charles Hoby, Mus. B. The presence of drug-trade visitors from all parts has been made the occasion of holding a meeting of the Mail Pharmacists' Union, and of giving a smoking concert in aid of the Pharmaceutical Society's Benevolent Fund. The experiment of admitting the public had not succeeded far enough when our representative left the exhibition for a judgment to be formed on its practical merit; but it was being watched with interest. Although the opening took place on a day sufficiently foggy to afford a typical picture in the lay Press, it was evident that widespread support for the new venture was at hand, and a sense of confidence was predominant. On the following day it was clear that confidence was justified.

Prior to the opening ceremony a number of prominent pharmacists met for lunch in the City Hall. Mr. E. H. Simmons presided, and Sir William Veno gave the toast "The Exhibition" in a humorous speech. Sir William pointed out the many advantages of trade exhibitions, especially in affording a very cheap form of advertising. He hoped that such an exhibition would be an annual event. Among those present we noticed Messrs. William Kirkby, E. J. Woolley, T. Miller, A. J. Pidd, D. Dickson, R. Cecil Owen, T. E. Eastwood, J. Grier, R. Hough, C. Kitt, J. H. Nidd, John Cleworth, and A. C. Vallance.

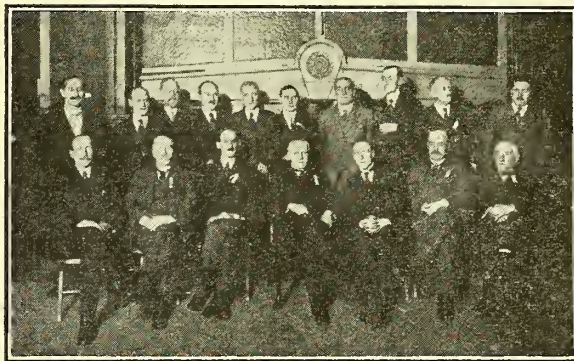
Opening Ceremony

On one of the balconies there assembled, at 3 o'clock, Mr. William Kirkby (chairman), Mr. E. H. Simmons (President of the Manchester Pharmaceutical Association), Mr. Victor Robinson (Robinson & Sons, Ltd.), Mr. A. J. Pidd, Mr. Rennie (W. B. Cartwright, Ltd.), Mr. J. H. Nidd, Mr. John Cleworth, Mr. T. H. Miller, Mr. John H. Grier, Mr. Vallance (James Woolley, Sons & Co., Ltd.), and several other members of local associations. The floor of the Exhibition was a large audience to which the Shakespearean word "citizens" may conveniently be applied.

Mr. W. KIRKBY, in opening the proceedings, remarked that it was something like twenty years since an exhibition of this kind was held in Manchester. All present could share the enterprise revealed in the magnificent array of stalls. Some of the most eminent names in Manchester—names that were household words—were associated with pharmacy. The exhibition also manifested a species of cooperation between Manchester and Salford, the President of the Manchester Pharmaceutical Association representing the Royal Borough. (Applause.)

Mr. E. H. SIMMONS raised disarming laughter at the outset of his speech by relating an anecdote of one of his children, who, on hearing that he was to open the Exhibition, commented, "I thought they had important people open exhibitions." (Laughter.) It was said that a good start often wins the race. The present Exhibition was a distinct advance on any previous chemists' exhibition. They had the finest exhibition hall in the country, the largest number of stalls ever housed under one roof. There was a series of competitions under the auspices of a number of local associations, and the opening was entrusted to an ordinary pharmacist carrying on an ordinary business in an ordinary locality. The Manchester Association, which had existed since 1842, was

to-day the most virile, and the most democratic, and together with the Salford Association it formed the largest body of organised pharmacy in the North. No exhibition could have had more care lavished upon it. (Applause.) In Manchester they were not obsessed with the idea that there was any sort of divine right in opening a chemists' exhibition (Laughter and applause), and they felt that Manchester had been unduly neglected in this respect. They of the Manchester Association welcomed this Exhibition as a unique opportunity of advancing the objects for which it was formed. Pharmacists are an educated body of men carrying on highly responsible duties—duties badly understood and badly remunerated in the past. (Applause.) The Association stood indebted to Mr. Kirkby, Mr. Miller, Mr. Franklin and Mr. Grier. The time spent by them was well spent if it aroused in the public mind a deeper interest. The Association had also been helped by Messrs. Wilkinson, Flatters & Garnett, the Pharmaceutical Department of the University, and James Woolley, Sons & Co., Ltd. It was no use putting the blind eye to the telescope; pure pharmacy would not provide a living.



Photo]

AT THE OPENING CEREMONY

[Cleworth

Front Row (left to right):—Mr. J. C. Kidd, Mr. T. E. Eastwood, Mr. E. H. Simmons, Mr. W. Kirkby, M.Sc., Mr. Edgar W. Hart, Mr. D. Dickson, Mr. A. J. Pidd

Back Row (left to right):—Mr. J. A. Dyson, Mr. H. Bellringer, Mr. J. H. Cuff, Mr. R. G. Edwards, Mr. J. S. Breese, Mr. T. Miller, Mr. A. C. Vallance, Mr. W. F. Cuttiford, Mr. W. I. Scholes, Mr. J. Hills

The young man in business must know how to buy as well as how to sell. Book-keeping, salesmanship, and so forth, had been woefully neglected in the past. In these days of manufacture on the large scale there must be the same perfect confidence in the wholesale house that we have in the medical man. The promoters of the Exhibition deserved success. (Applause.) No doubt there was a boom in trade coming. Manchester chemists were proud of their city. In declaring the Exhibition open he wished all present a "gradely" time. (Applause.)

The band of the Royal Marines then rendered the National Anthem, all present standing.

Mr. VALLANCE moved a vote of thanks to Messrs. Simmons and Kirkby, both of whom he eulogised, dwelling especially on the services of Mr. Kirkby as President of the British Pharmaceutical Conference.

Mr. JOHN CLEWORTH seconded, remarking that, as a past-President of the Manchester Pharmaceutical Association, he had been intimately connected with both these gentlemen, and knew their value. He (the speaker) had originally brought the matter of the Exhibition before the Committee of his Association, and he was pleased to note its success and the support given by local associations. He did not think there had ever been a better chemists' exhibition, and he hoped that business would result. (Applause.)

Mr. Cleworth put the resolution, which was carried amid loud applause. Mr. Kirkby and Mr. Simmons briefly replied.

The Stands Pharmaceutical Products

The speciality department of the **ANGLO-AMERICAN OIL CO., LTD.**, have an attractive display of preparations, most of which are connected with pure petroleum. First of all comes Nujol, the viscosity of which is at the right point for therapeutic purposes. They are also showing Mistol, a solution for nasal spray; 0.890 liquid paraffin; isopropyl alcohol for perfumes, etc.; packed goods of pharmaceutical and toilet sorts; and emulsions and ointments of many kinds.

MR. ROBERT BLACKIE makes a feature of spun ointments, a variety of which can be supplied in "own name" tins with an £8 order. **MR. T. E. BRISBY**, the representative in charge of the stand, also drew the attention of our representative to Olivene (malt extract with olive oil), and to chemists' packed goods of many kinds.

BROOK, PARKER & CO., LTD., have a large stall filled with a wide range of goods—nearly all of a purely pharmaceutical sort—for the chemist and druggist. Crude drugs are displayed in great variety, and among these they call special attention to their radix rhei, which they import direct from China. Tablets and lozenges of all kinds, B.P. and otherwise, are displayed. The North Sea brand of malt and oil figures prominently, as also does this company's cod-liver oil emulsion. Then, again, there are packed goods of every sort, both medicinal and toilet. Another leading line is waterglass, which is packed in artistic tins.

W. B. CARTWRIGHT, LTD., are making a special point of the packing of tablets in sanitape—every tablet wrapped by machinery in waxed paper. A tablet is torn off as required. This method secures air-tight packing; bottles are no longer required, cartons only being necessary, and the cost is even lower than bottle packing. A machine is



on view for sanitape packing, and visitors may see the process for themselves. The company are showing also the "Elfrida" toilet series—liquid brilliantine, hair tonics, skin creams, and so forth. Nupines are displayed, and it is claimed that no similar lozenge has a larger sale. "Own name" goods form a large department, and some are of toilet and others of medicinal character.

CLEMENT & JOHNSON, LTD., occupy a large stand with their well-known Yadil preparations. Yadil is claimed as the ideal disinfectant, suitable equally for internal and external use. A new series is now on the market, including Yadil antiseptic jelly, pastilles, soap and other products. The Yadil Book, published at 2s. 6d., is full of interesting information about this new and increasingly popular antiseptic.

ARTHUR H. COX & CO., LTD., whose stand is supervised by **MR. J. B. WIGGINTON**, managing director, have a central attraction in the shape of a composite show-card, measuring about 2 ft. by 2 ft., comprising eighteen varieties of tablets let in in grooves or niches. Further, there are

eight varieties of label from which to choose, and the chemist's own name and address are printed free on orders amounting to a little over £3. Messrs. Cox are also making a prominent display of their "Bathing Girl" brand soap, six tablets of which are packed in multi-coloured wrappers in an oval box. A new series of toilet products (from shampoo powders upwards), in which brown and gold form the predominant colour scheme, and an exceptionally smartly packed "Cleopatra Henna Shampoo Powder" must not be overlooked. To these can be added a new series of bath crystals in tubes, making an easily measured charge for the bath.

CEPHOS, LTD., have a smart corner stand, in charge of **MR. APPLEBY**, a model window-display revealing the possi-



bilities of effective *étalage* with a single article. Free samples are being given away at the stand, laying the foundations of increased business, and advertising material with a 10 per cent. bonus is available for chemists.

J. C. ENO, LTD., exemplify the art of dressing a stand with their usual fine taste. "But still a ruby kindles in the vine"—in other words, grapes of lustrous appearance are prominent in the decorative scheme. **MR. A. PROCTOR ATKINSON**, the sales manager, who is in charge, was telling trade visitors about the company's special advertising offers, with satisfaction on both sides.

GENERAL KAPUTINE SYNDICATE, LTD., have a good deal to tell the visitor—and it must be remembered that the public is admitted to this Exhibition by payment—concerning the merits of Kaputine. Many other lines are included in the company's output, such as fruit essences, composition essences, and cheap packed goods of many kinds.

THE GRAFTON CHEMICAL CO., LTD., concentrate on Weston's Stop-Cough, a proprietary issued in a 1s. 3d. size only. It is essentially a preparation vendable by chemists, and the proprietors have the utmost confidence in its therapeutic efficiency. Locally, we understand, a solid reputation is being steadily built up for it.

HOUGH, HOSEASON & CO., LTD., have a stand in a prominent position, and are making an effective and artistic display of the many lines for which the house is well known. These include Tritovo (a blood-forming food), Thiodin Compound tablets (for rheumatism), elixir terpin, co. c. heroin, Kinhalor (an inhaler for catarrh, etc.), elixir of red bone marrow, and Dermofax, the name of which cleverly suggests its function. In addition, there is a representative range of pharmaceutical goods—capsules, pills, tablets, tinctures, ointments, and the convenient concentrated mixtures for which Messrs. Hough, Hoseason & Co. have earned a great reputation.

HOWARDS & SONS, LTD., have a stand planned in one of their effective black-and-gold schemes. A prominent feature is being made of hydrogen peroxide, bottled in

$\frac{1}{2}$ -lb., $\frac{1}{4}$ -lb., and 1-lb. sizes. Howard's standard ether and the now familiar counter packages of boric acid and other salts are in evidence, and bells of camphor strike a note—literally, if one cares to try them—of distinction.

INTERNATIONAL CHEMICAL CO., LTD., are showing Bisurated Magnesia and Lavona Hair Tonic in simple but effective fashion against a concave background, a package of each being placed centrally where the eye naturally rests upon it.

LEONARDS, MANUFACTURING CHEMISTS, LTD., make a leading feature of Presito, an ointment packing which enables the ointment to be pressed out, ribbon-like, through a slot, leaving the remainder safely away from possible contact with foreign matter in the form of dirt. Corzat, a highly aromatic cotton-wool for use in cataract and kindred troubles, is another principal line, backed by a capital range of sundries.

LITHERLAND BROS., LTD., are displaying only one line—their White Cross pastille for coughs and colds. These are packed in 4-lb. bottles, retailing at 2d. per oz.; the sole agency for Lancashire is in the hands of R. & J. Scholes, Ltd., Hulme.

WILLIAM MATHER, LTD., have a fine display of plasters; it is safe to say that no important plaster is omitted from the stand. Specialities are two sorts of binding for bats, hockey sticks, etc.; rubber combination plasters; isinglass and lead plasters; self-binding plasters; chemical flypapers; and "Ventilo" plasters, which are made "porous" by lines instead of by holes. Messrs. Mather have put on the market a talcum powder retailing at 9d.; this is good value and is neatly packed.

W. T. OWBRIDGE, LTD., are making an arresting display of their well-known lung tonic. There are also displayed Owbridge's embrocation and Atoms of Health (laxative pills). There is much advertising matter on view to enable the chemist to increase his sales.

PHYSIKURATE, LTD., have an artistically arranged stand, on which is displayed their well-known granules in the usual sizes of bottles. Visitors are invited to sample the salts, and a brisk business in this was being done.

ROBERTS' CROUPLINE, LTD., have a big display of Croupine, a syrup for croup and coughs generally, especially in children. There are also Croupine lozenges and Krax (a preparation for chapped hands). Crevalin, a nasal balm, is also prominently displayed, as is a solid embrocation known as Phistol. At another part of the stand is being shown a number of filling machines for liquids, and it is claimed that the company can supply a machine suitable for liquids of all viscosities and for any quantities from one drachm upwards. Working demonstrations are given—always a wise step where machinery is in question.

SALTRATES, LTD., are displaying their well-known lines, Reudel Bath Saltrates and Alkia Saltrates. There is a good deal of advertising matter on view, especially some attractive dummies and posters. This stand is very artistically arranged, a number of chairs being provided for the tired.

J. M. SMITH & Co. are again to the fore with a wide variety of disinfectant solutions, prominent among which is lysol. Their carbolic powder (for disinfecting) is well displayed, as also are their carbolic tooth powder and paste, Zymate tooth paste and anti-pyrrorhea tooth paste. These and other lines can all be had as own-name preparations.

DAVID THOM & Co., LTD., have a stand the main feature of which is their "Bombshell" chemically pure glycerin, which has undergone, as a matter of routine, tests considerably more severe than those laid down in the Pharmacopœia. Messrs. Thom have long regarded themselves as pioneers in the glycerin industry, and have entire confidence in the goods they manufacture. Soaps in many kinds are also on view here: of these, "Portia," white Windsor and Thom's Castile soap are lines that have long since gained a high reputation for quality.

THE VENO DRUG CO., LTD., have a varied display which includes a demonstration in the compressing of Dr. Cassell's Tablets. "Cherry Pines," Germolene talcum powder, and a new ammoniated bronchial lozenge are other features of a cleverly planned and appealing exhibit.

WIGGLESWORTH, LTD., have a large and artistically arranged stand to illustrate what has come to be known as the Wigglesworth way. Prominent are capsules, tablets and pills, in bulk and packed. Perhaps the house's leading activity is in supplying own-name preparations, pharmaceutical and toilet. Other leading lines are (packed)



syrup of hypophosphites, superpines and heart-shaped indigestion tablets. Sanitape packing is also undertaken by the company.

JAMES WOOLLEY, SONS & Co., LTD., are showing a very large range of goods for chemists. These include first-aid sets of all prices and sizes, perfumery, toilet preparations, own-name packed goods of all sorts, compressed tablets in bulk and packed, lysol, Boval floor gloss, Valkasa, phenate of soda, Phenoda tooth paste, and pills, packed and in bulk. In addition, there is the Nurona series of toilet articles—vanishing creams, dry shampoo liquid, hair creams and tonics, and so forth. Surgical appliances and druggists' sundries are also shown.

CHAS. ZIMMERMANN & Co. (PHOTOGRAPHIC), LTD., make a special show of every conceivable sort of photographic



chemical—especially fixing, developing, toning and intensifying solution. The Agfa brand of solutions are prominently shown—particularly Rodinal.

Toilet Preparations

ALZA (1920) Co. have a capital range of smartly packed toilet lines which, we learn, are being extensively pushed. These include vanishing cream, shampoo powders, brillian-tines *et id omne genus*. Nor must we overlook the druggists' sundries, in which term (for the moment, at any rate) we include such goods as shaving brushes. Although the firm is relatively a new one, long experience in the handling of such articles has given confidence in being able to satisfy customers' requirements.

BOYD, WILSON & Co., LTD., have an artistic display of Areco perfumes and toilet specialities. Prominent among these is the "beauty box," eight series of which (retailing at 10s. a box) are on offer for Christmas trade; with each box a cut-glass bottle of perfume, averaging 7s. 6d. at retail value, is being given away. Next in order out of many attractive lines we examined the eau de Cologne, which is guaranteed to contain 50 per cent. of spirit and yields a 50 per cent. profit on bonus terms. There are several sizes from 1s. 6d. upwards. The company's powder sifter box (a form in which they claim to be pioneers), and Crème Fiamette, a vanishing cream backed by testimonials really worth consideration, are also on view; and a well-balanced exhibit is completed by the tube series of "drop" perfumes, by several cheaper series retailing at 1s., and by brillian-tines.

F. S. CLEAVER & SONS, LTD., give prominence in their comprehensive display to new series of soaps in disc form—a violet-scented oatmeal and three others. These, it is important to note, are for sale by chemists only. Five other groups of toilet preparations are artistically ranged on the front of the stand, and will no doubt lead to many inquiries. On a smaller scale are combination boxes for Christmas gifts (two cakes of soap and a bottle of perfume), and similar boxes for babies' use. In the background hangs a case of the company's medals, and near it is one of the 1851 Exhibition tablets.

CUSSENS, SONS & Co., LTD. (incorporating Shirley Brothers), have one of the largest and most comprehensive displays in the hall, comprising Kervall perfumes, White-cross antiseptic baby powder, "Maydew" toilet preparations, and other proprietaries of this enterprising company. The values offered struck one as remarkably good.

EUCRYL, LTD., have set out to conquer new worlds with Aqualettes, which are small, readily soluble and non-caustic tablets for perfuming and softening water. The perfume is skilfully blended, and the price is entirely within the range of moderate purses. The company's standard lines occupy duly prominent positions, and we hear very satisfactory accounts of sales of Eucryl denture powder, lysol (Lycryl brand), and the still better-known tooth powder and paste.

ROBERT FERBER, LTD., are displaying a comprehensive range of toilet and pharmaceutical articles, including capsules of many sorts; toilet articles, especially shaving and toilet soaps; manicure sets; and various sundries. There is a special display of brushes, and particular attention is called to this firm's Lemon soap—which has the exact appearance of a lemon and the scent of the same.

FLEUROL (LONDON), LTD., have a beautifully got-up display of toilet lines. It was pointed out to us that these goods are sold only to chemists. They include fancy soaps in all sizes, shapes and odours, bath salts beautifully coloured and artistically packed, vanishing creams, shaving soaps, and an antiseptic spray essence for the throat and nasal passages.

D. & W. GIBBS, LTD., have one absolute novelty on show so far as the drug-trade is concerned—or so, at least, they confidently believe. This is a projector for casting an illuminated design on any part of a shop, window, floor, ceiling, or doorstep. By a simple arrangement the wording can be changed so as to "feature" different specialities in rotation. An illuminated tower of soap forms another outstanding feature of a highly creditable display; and we must not overlook the new series of head soaps, shaped to fit the scalp, in "henna shampoo," and other varieties.

F. W. HAMPSHIRE & Co., LTD., have a unique display, comprising a mountain of snow, on each side of which

stands a brazier of fire, with appropriate references here and there to Snowfire specialities. There is a suggestion of the last act of "Die Walküre" about the setting, but presumably no lady has been put to sleep at the top of the mountain—rather the contrary.

CHARLES HARRISON & SONS, LTD., have a neat display of "Persian" hair dye, "Victor" hat dyes, and a large variety of packed lines. "Danse Eesy," the name of which indicates its function, is an attractively cartoned line, and, we learn, commands big sales.

MR. T. KEMPSTON has a small, but none the less attractive display of the perfumes and other toilet preparations of D'Arlay, for which he holds a sole agency. Several of these perfumes—e.g., Aube Printanière—have unusual names (a good selling point), and all are finished with the meticulous artistry that a good perfume house knows so well how to apply.

JOHN KNIGHT, LTD., have an exhibit which must have given their designer some considerable thought, so deftly are the details worked into an harmonious whole. They had something to tell our representative as to a special offer of a dozen miniature bottles of perfume with every 1-gross order for "Knight's Castile" soap, and showed him at the same time a novelty in the packing of small perfumes. It is of interest to note that James Woolley, Sons & Co., Ltd., have purchased this exhibit as a whole.

KOLYNOS, INC., have an artistic display of their well-known tooth paste. The firm have given much attention to advertising novelties, which include "moving" picture cards, electric lamp shades, and artistic posters.

MA CHERIE, LTD., have a seductive stall, in which are displayed, with bright colours and attractive odours, a wide range of toilet articles. The company calls special attention to the low price and high quality of its goods.

FRANCIS NEWBURY & SONS, LTD., specialised in packed goods of every sort, and of these a wide variety is on view. They range from compressed tablets to cough syrups, and from tooth pastes to varnishing creams. All are of the "own-name" variety. The company is showing a full range of Cuticura preparations, of which they have the sole agency for the United Kingdom; also Jakson's oil of peppermint; Culmac shaving brushes; the Wenbury tooth brush; and druggists' sundries of all sorts, especially beaver puffs.

A. & F. PEARS, LTD., have a beautifully got up stand, in which their many lines make an arresting picture. Beside the well-known golden lines, and the transparent soap, many varieties of opaque soaps are shown, together with numerous toilet articles calculated to make a strong appeal to the fair sex. The transparent soap ball is now packed in boxes of three balls, each wrapped in brightly coloured paper. A stand has been erected to show how transparent the soap is; a number of tablets are arranged with a strong light behind them, and the effect is almost as if one looks through red wine. One of the original tablets made by Andrew Pears is to be seen, and a costume display in one of the eighteenth-century vogues is another (and a conspicuous) attraction.

THE PEPSODENT Co. are showing their well-advertised tooth paste in two sizes, retailing at 1s. 3d. and 2s., and their Decorater tooth brush. Artistic advertising novelties are in great evidence, especially pretty show cards, plain and coloured.

PRICHARD & CONSTANCE (WHOLESALE), LTD., are exhibiting an attractive display of Amami toilet articles. Vanishing creams, face powders, toilet powders, soaps, perfumes, toilet waters, and manicure articles are among the goods which are attractively packed. Amami make a special point of their low prices, their excellent quality, and their handsome margin of profit to the retailer.

JOHN QUILLIAM & Co., LTD., are showing a full range of toilet and surgical requisites, including high-class manicure sets and toilet sets. The expression "full range" really means, in this case, what it says, and any visitor to the stand is fairly sure of being successful in finding anything in the way of druggists' sundries.

C. A. STOKES & Co., LTD., have a striking stand devoted to toilet preparations of many kinds, and most prominent among these is Lustressa, primarily a hair tonic, the principle of which has been extended to Lustressa shampoo-powders and Lustressa cream. A large

range of perfumes, brilliantines, hair creams, face creams and packed goods of cognate kinds completes a stand of unusual appeal. A series of transparent labels for products of the brilliantine series is noteworthy as a refining touch.

The Manchester Association's Exhibition

THE MANCHESTER PHARMACEUTICAL ASSOCIATION have a stand designed to instruct the public in the scientific side of the pharmacist's calling. Crude drugs are shown along with finished products of a great many kinds. A number of pieces of apparatus more or less closely connected with the pharmacist's art are also shown—as microscopes, tincture presses, polariscopes, lantern and microscopic slides, and so forth. Whether or not anything of the kind has



ever been attempted before, this display constitutes a notable piece of propaganda, the effectiveness of which, it may be hoped, will be in direct proportion to the care with which it has been planned.

Machinery and Glassware

DAWSON BROTHERS, LTD., have an impressive display, consisting chiefly of bottle-washing machinery. Machinery, of course, does not readily lend itself to description; but our representative was shown the working of three different machines—the first a small compact washer; the second of a larger type, capable of dealing with 150 bottles an hour, with the assistance of three workers; and the third a machine for washing flats. A corking machine and a labelling block were other features of a thoughtfully planned exhibit.

FARROW & JACKSON, LTD., display filters, stills, tincture presses, small soda-water plant, coffee-making machines, and a variety of apparatus for the manufacturing pharmacist.

MELDRUMS, LTD., have a massive display of the machinery in which they specialise, for instance, the "Meldrum" steam jet apparatus, and various fittings made of the company's acid-resisting metal.

J. H. RILEY & Co., LTD., are demonstrating the actual working of their vacuum drying plant. The principle, or one of the principles, governing vacuum drying, may be well known, but it is very instructive to see the process going on and to have it explained. The list of well-known firms using Messrs. Riley's "Taylor" vacuum dryers and patent heating shelves is a lengthy one.

HERBERT SMETHURST & SONS, LTD., are showing a ventilating machine in which they specialise. On the same stand H. SMETHURST & MEAD have a large show of Exterpest, an insect powder for killing beetles, cockroaches, etc., to which we recently called attention on a similar occasion.

G. VAN DER HOEK has a comprehensive display of medical and perfumery glassware, which, as an actual maker, he is able to offer at competitive prices. Feeding bottles and tablet bottles are also articles of standard value in his catalogue.

THE THERMAL SYNDICATE, LTD., are displaying a variety of chemical apparatus, especially that made of

Vitreosil, fused quartz which is acid-resisting and unbreakable by heat. Since it is also semi-transparent, it is of great utility for gas-globes and bombs, and it is claimed that the additional cost over that of porcelain is little or nothing.

YOUNG'S PATENT HYGIENIC BIN Co. & MORTON (WISHAW), LTD., share a large stand at which interested groups of people were watching demonstrations when our representative called. Mention must be made, in particular, of Young's patent mixer-sifter-mixing, powder-filling, and tablet-compressing machines. Messrs. Morton devote their skill to the perfecting of such labour-saving devices as emulsifying machines.

THE ACELTA PERFECTED CAPPING Co. are showing a novelty in capping, viz., a fountain into which the cork and bottle top is dipped. This forms a cap which is neat, air-tight, and impervious to heat and moisture. It takes a high polish, and almost any colour may be chosen.

Dressings, Foods, Beverages, and Sundries

R. H. ALLEN & Co., make a brave display of useful lines in druggists' sundries, including Allen's Rosebalm, Overton's Foot Balm, and many other goods that to a large extent sell themselves when shown.

AYRTON-GRAHAM, LTD., are displaying examples of their shop-fitting work. Some very attractive showcases and window-fittings are on view, and this firm undertakes the fitting up in any conceivable manner of the interior of the pharmacy. Shelves, stands, cases, in many sizes and designs, are in evidence.

ARTHUR BERTON, LTD., have a large stand, at which there is much to see, both without and within. It is questionable, in fact, whether any other exhibitor has as great a variety of goods on show. Some high-class manicure sets—e.g., in ivory and silver—struck the C. & D. man as the last word in refinement on these lines; and the tortoiseshell toilet sets were not less appealing. The display ranges from such goods as these to vacuum flasks, hot-water bottles, and humbler sundries of thoroughly workmanlike finish.

MR. JOHN CLEWORTH has an exhibit that has never been shown at any other chemists' exhibition, consisting of more than 150 lantern slides (illuminated) taken by him at British Pharmaceutical Conferences from 1907 to 1922 inclusive. Mr. Cleworth is also displaying several photographs from the collection of war records made by him when he was official military photographer in the Manchester area. These not only form a collective tribute to his mastery of the art of photography, but also bring back many pleasant memories to frequenters of past Conferences, and constitute a side-light on the progress (if any) of pharmacy. Mr. Cleworth has been at some trouble to enable us to secure photographs in time for this week's issue, all seen in this account being taken by him.

JOSEPH COOKSON, LTD., make an effective and comprehensive display of surgical dressings of all kinds and of cords, strings, chamois leathers and chamois dusters.

A. F. CORBETT & Co. bring forth out of their treasury (in this case, workshops) things new and old, all of which are alike conditioned by the firm's intimate knowledge of the art of display. A new tooth-brush stand and some new counter cases, which should be seen, if they have not already been seen, by "live" chemists, exemplify this knowledge in a striking degree.

THE CORRUGATED PACKING MATERIALS Co., LTD., specialise not only in corrugated paper, but in boxes and cartons made of this material. The paper is of all tints, and it is made into boxes to pack all manner of goods, from eggs to medicine-bottles. The company is showing also gummed tape to replace string in fastening parcels.

The "CRUSADER" hot-water bottle shares a well-placed stand with other goods. It has a side to itself, however, and its features are fully explained to the visitor. British, made in two pieces only, in one standard size (15 in. by 9 in.), and thoroughly tested by pressure with weights: this, in substance, is the recommendation—and a very good recommendation.

THE DE VILBISS Co., LTD., specialise in sprays, and these are to be had for all purposes—toilet and medicinal.

They are well worth examining in detail, and are sent out with a guarantee.

DOLS & Co., LTD., have a display devoted to Dols (Volatilise) Flannel, the name of which suggests its therapeutic properties. Much has already been heard of this product, and one can well believe that its use is steadily increasing.

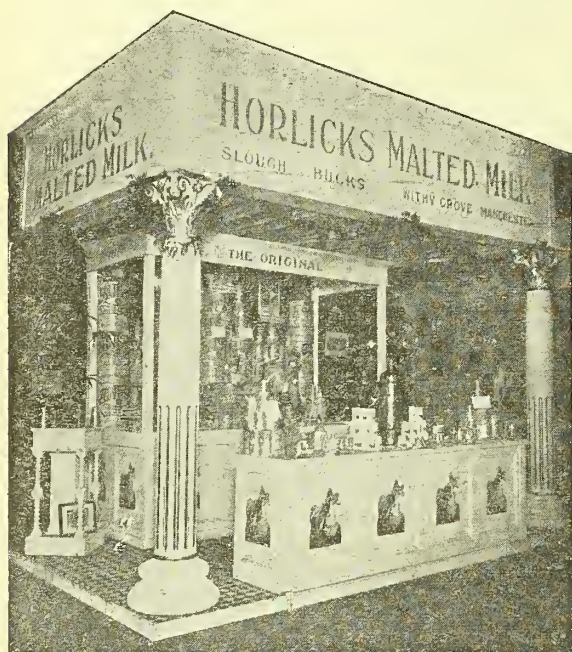
ENSTONE & LILIENFELD exhibit and demonstrate the use of Coolpate, which may be roughly described as a light metallic band that induces a cool sensation when bound round the forehead; the proprietors have the utmost faith in it as a headache cure. The price is quite moderate.

MR. J. E. GARRATT is making an effective and artistic display of New-Skin, and he claims that there is no preparation on the market quite like it. This line is being extensively advertised.

GLAXO, always enterprising, have put on their stand a sixpenny trial package (with measure). Free samples are also being distributed, and, in this connection, we note that the company's book on child-rearing is now issued gratis. Circulars containing particulars of the new price-maintenance scheme are also available. Advertising material was being effectively displayed on the white walls of the stand.

GRONDARD MAISONNEUVE & Co. have a fine display of sprays. These are of all sorts, sizes, colours and prices, with the distinction of finish peculiar to the work of the best French houses.

HORLICK'S MALTED MILK Co. have a strongly massed



“park” of their speciality, samples of which are being dispensed at the stand by courteous representatives.

THE INSTITUTE OF OPHTHALMIC OPTICIANS, which appeals primarily to chemists who have an optical connection, have a reception-room, with Mr. J. Harcombe Cuff in charge, in which the advantages of union with the Institute are pointed out in detail.

ITONA PRODUCTS, LTD., are showing Kwofit, a syrup packed in tins from which syrup, it is claimed, can be made at home. It is guaranteed to contain malt and hops, and it is believed that no other preparation yields a beverage so like the genuine article.

JEWSBURY & BROWN, LTD., show a comprehensive range of aerated waters in bottles and in syphons, and fruit syrups and cordials in a great variety of flavours. A new leading line is J. & B.'s health salt, which is sold at the low price of 8d. The packing is attractive. There is a fine display of tooth paste in pots and tubes, and there

are two makes—Pearlone and Orientalboth of which retail at 1s. 3d.

THE PALATINE WIRELESS EQUIPMENT Co. are thoroughly in the movement with a display of wireless receiving apparatus. General technical descriptions of apparatus for this purpose have already appeared in the *C. & D.*; it must suffice to mention here that the sets exhibited include Palaphone receivers, crystals sets, and the Palaphone super-four receiver, the last-named of which includes several novel features.

PENNEY & Co. have a well-placed stand filled with the proprietaries for which they are sales agents and distributors. These include Kemolite (Phyllis Earle, Ltd., who are promoting a beauty contest), Luton hat-dyes, and Ranja orange juice. The last-named is put up in two varieties—as a beverage and as an adjunct to infants' foods, to which its vitamin content forms a notable addition. Weir's Lysol and Valeda food are also worth mention among the features of a varied display.

THE LONDON METALLIC CAPSULE Co., LTD., specialise in metal capsules for bottles. These may be had in any



colour or size. They show also a great variety of collapsible tubes and capsuling machines.

ROBINSON & SONS, LTD., have a well-placed stand at which many of their high-class dressings are in evidence, flanked by cartons and boxes of their manufacture. An interesting feature of the display is a set of new Insurance dressings, which will be in increasing demand when the Order prescribing their use comes into force. Messrs. Robinson are prepared to supply all the dressings in the new schedule. We must not overlook their “Stag” brand thermal wool, a line that bears the unmistakable *cachet* of this always up-to-date house. Visitors to this stand can hardly fail to gain the impression that quality stands first.

THE RUBBER NOVELTIES Co., LTD., have a comprehensive display of rubber bandages, wristlets, enemas, hot-water bottles, and the many lines in rubber that the chemist needs—often at short notice.

A display of an unusual kind is that made by the SALFORD ROYAL HOSPITAL, which has two specimen beds as a reminder of the hospital's needs. A scientific note is imparted to the ward-like interior of the stand by a collection of large-scale and clearly printed radiographs.

THE SILVRONIT CHEMICAL Co. have a neat display of lustre, a plate powder, concerning which demonstrations are given at the stand. The public in some parts of the country need educating up to the using of polishes in equate quantities, and any line such as this which makes polishing a pleasure is to be encouraged.

SOFTOL, LTD., specialise in water-softening mixtures and apparatus and solutions for water testing. The use of their apparatus is explained at the stand, and it is obvious that a great deal of experience has contributed to the elaboration of their chemical products.

THE THERMOGENE Co., LTD., make a striking display, with the aid of a giant bundle of their product and some well-chosen ribbon, of a line that may not appeal to the average window-dresser for its showy qualities. Window-splay terms, by the way, are on offer by the company.

THEW, HOOKER, & GILBEY, LTD., display Hooker's Malted Milk on a stall in a prominent position. Samples are distributed both *au naturel* and ready mixed. It is claimed that Hooker's Malted Milk is rich in vitamins. The various sizes of this preparation are shown, and a good deal of advertising matter is displayed.

VANGE WELLS ("VANGAU"), though a little late in arriving with an exhibit of their medicinal water, were, we learn, making headway, in spite of this handicap, the merits of which were being vigorously advocated by the representatives in charge.

THOMAS WAIDE & SONS, LTD., make a striking display of many forms of printed matter, prepared specially for chemists. Labels, envelopes, cartons, showcards, labels,



Labels, etc., are shown in every variety, size and colour. As an instance of the thoroughness with which this highly technical kind of work is undertaken it may be mentioned that Messrs. Waide differentiate chemists' printing into a wholesale and a retail section. They also do a considerable business in corn-silk and chemists' twine, the packing of the former being distinguished by an unusual degree of finish.

MR. JAMES F. WILKINSON makes a feature, among a well-varied display, of a new range of showcards. Those that we examined had a black or very dark ground against which the brightly coloured lettering stood out with great effectiveness. It is evident that Mr. Wilkinson has ideas of his own on the subject of artistic design, and very striking ideas some of them are. Cartons, wrappers, and chemists' stationery go to complete a useful exhibit. We find that Mr. Wilkinson's name was omitted from the list of stallholders given in our last week's issue—an unintentional oversight for which we are duly regretful.

WILSON'S SODA FOUNTAINS (1921), LTD., had a handsome display of the machinery suggested by their name. Opinions differ as to the suitability of the soda fountain for the British climate; but, granted the condition of usefulness, this company is distinctly well equipped as suppliers.

Retail Pharmacists' Union Meeting

A mass meeting of the members of the Retail Pharmacists' Union was held in the lecture-hall at the exhibition on November 22, when about 180 members attended. The chair was taken by Mr. Thomas Hardy (chairman of the Executive), supported by Mr. F. W. Bates, J.P., Mr. C. Ridyard, and Mr. T. Marns.

The CHAIRMAN explained that the gathering had been called by the Manchester and Salford Branch of the Union, and that the R.P.U. was a trade organisation which had been set up for the benefit of pharmacists in business. Pharmacists were very much behind other trades in this respect, so that the trade side was without the organisation necessary. The reception accorded to the R.P.U. since its inauguration augured well for its success. The Executive were concerned as to what steps should be taken for schemes which would prove successful from a financial standpoint. He claimed that they had evolved schemes which would prove of great benefit to pharmacists.

MR. MALLINSON (secretary), who was warmly received, asked what was wrong with pharmacy—not at the present time especially, but in pre-war days—as he thought that during the last five years pharmacists had done pretty well. What, in his opinion, was wrong was that they had looked upon pharmacy too much from the professional point of view. This to him was rather surprising, as he maintained there was no better business man than the pharmacist's, and he could only suppose that their business talents had not always been turned in the right direction. He did not like to say they all misapplied their abilities—especially to Lancashire pharmacists. He knew they did not get the same result from the amount of energy, industry and thought that other people got out of their business, for the reason that they submerged the idea that pharmacy had a trade side to it, and in doing so they unconsciously hampered their efforts to create a profitable business for themselves. Another reason was that they had an indifferent type of organisation in pharmacy. Frankly, they had not had the organisation they should have had. The Pharmaceutical Society did its best, but was hampered too much by its charter. The R.P.U. set out to create a body that would have no limitations. He thought they had created such an organisation, and did not think their worst enemy could say that up to the present time the R.P.U. had failed to touch anything because it was beneath their dignity. He had been told the Union had not dignity enough. He did not think they needed much dignity to deal with business matters. Common sense was all they needed. He did not think that in pushing the trade side pharmacists lost sight of the fact that their qualification was a fundamental principle on which their prosperity was bound to be based. They did not forget the professional side, and they did not intend to do anything to damage that side; but if they were to thrive they must not forget the business side of the profession. Mr. Mallinson gave various details regarding the Union, the Chemists' Defence Association, etc., and finally said that the future of pharmacy depended entirely upon their organisation, which would soon prove one of the soundest in the country.

MR. F. W. BATES urged pharmacists to make greater use of their Union. There was no business so difficult and dangerous as that of the chemist, who should readily take advantage of the protection afforded.

MR. F. HINDLE supported the plea, and urged members to make the greatest possible use of the organisation.

MR. C. W. RIDYARD also spoke.

Questions being invited, several were put, relating chiefly to Insurance and price lists. Mr. Lloyd complained of some firms having given away free admission cards to hairdressers. The chairman replied that the point would be noted.

The usual vote of thanks closed the proceedings.

STEEL PENS, a correspondent learned in such matters informs us, date from about a century ago, the inventor being one John Skinner, of Nursery Street, Sheffield. pen maker to George IV. Gillatt, of Birmingham, began as a workman of Skinner's.

Western Pharmacists' Dinner

THE thirty-second annual dinner of the Western Pharmacists' Association was held at the Connaught Rooms, Great Queen Street, London, W.C., on November 15. The Western is not only the largest but also the most truly democratic of the Metropolitan Associations, for does not the Royal Borough of Kensington include the Portobello Road area, and is not Belgravia bordered by Port, or, rather, South Belgravia? From these and other districts members and friends gathered in satisfactory, if not quite record, numbers to celebrate an always pleasurable event. The President (Mr. W. E. D. Shirriff) and his wife held a reception before dinner was served, and the happy atmosphere of the function assured the success of everything that was to follow. The night of a general election is not, perhaps, ideal for such gatherings, and for a brief space some of the exuberance of the electioneering spirit crept into the proceedings; but this was a passing episode that will probably not recur unless a similar conjunction arises again. Supporting the President at the top table were Mrs. Shirriff, Mr. E. T. Neathercoat (President of the Pharmaceutical Society), Mrs. Neathercoat, Mr. F. W. Gamble (chairman of the British Pharmaceutical Conference), Dr. and Mrs. Chambers, Miss Jackson, Miss Buchanan, Mr. and Mrs. A. R. Melhuish, Mr. and Mrs. E. White, and Mr. and Mrs. A. H. Jenkin. The spur tables were presided over by Messrs. H. S. Wat-

son, J. P. Ellerington, B. R. Wilkinson, Harry Martin, and C. G. Bonner; and among the general company we noticed Messrs. A. R. Arrow-smith, J. A. Alban-Atkin, R. R. Bennett, William Chalmers, G. W. Evans, R. H. Fynn, C. H. Hampshire, R. M. Harvey, Alfred Higgs, J.P., A. R. Keith, T. Edward Lescher, John D. Marshall, C. A. Noble, C. Andrews Pratt, G. Roe, and Herbert Skinner. The dinner was of a nature, substance and quality to sustain the fame of the Connaught Rooms; and the musical programme which followed was also duly appreciated, the lady artists, in particular, having temperamental gifts in a high degree. The speeches were, without exception, commendably brief. Mr. B. R. Wilkinson (Vice-President) headed the roll of orators with a witty and characteristic utterance in giving the toast of "The Pharmaceutical Society." After hitting off in a few sentences various kinds of people to whom that toast has been entrusted—the axe-to-grind man, the sapo mollis man, and so forth—Mr. Wilkinson said that the toast was the only opportunity a member of the Society gets for drink-

ing his own health. Certain things, drily added the speaker, might be taken as read: the Pharmaceutical Society was branching out—and then he sat down. Mr. Neathercoat was in a merry vein in replying. He thanked Mr. Wilkinson for briefly glossing over the good deeds and the faults of the Society. (Laughter.) The record of the Western Association was inseparably connected with the development of the Pharmaceutical Society, which had always had some of its members on the Council, sometimes as many as half a dozen. On several occasions it had provided the Society with a President—a record not equalled by that of any other association in the country. At such functions as the present the chief portion of our enjoyment was not the speeches. (Laughter.) In proposing the toast of "The Western

Pharmacists' Association," Mr. Gamble passed from gay to grave by skilful gradations. After a sally at the expense of the ladies, Mr. Gamble went on to say that the Western Association is still the premier association, and that as pharmaceutical organisation becomes more intricate, it remains in the centre of things and must accept the responsibility. There is, he continued, a great dearth of idealists. We have not the imagination that we once possessed; but we must not regard that as a normal state of affairs. There is a difficulty in getting the voluntary work done that was formerly done. For the moment, we are under the domination of the tag-gatherer. Pharmacy must advance, with other professions, in education, achievement and ideals. The President, responding, suggested that three words might sum up the life of the

pharmacist—pharmacy, business, sport. He was convinced that pharmacy has ideals, and that those who were in it are trying to do as well as those of a past day. With a much-applauded reference to Messrs. Maw's challenge shield and to the work of the dinner committee (not forgetting Mr. Harry Martin), the President concluded, drawing a final gust of laughter with a capital Scottish story. "The Visitors and Guests" wound up the toast list, and was safe in the practised hands of Mr. J. P. Ellerington, the Association's general secretary. Mr. Ellerington had the audience entirely with him in his references to visitors from other areas, and the toast was rendered with musical honours. Mr. William Chalmers briefly replied, assuring the Association that once a man becomes a visitor he always returns, and that ladies enjoy the festivities of the Western Association more than any other similar function. To Mr. Chalmers fell the distinction of capping preceding funny stories with one that would have been hard to beat; and the thirty-second dinner of the Association was closed with "Auld Lang Syne" and the National Anthem.



Mr. Melhuish



The President



Mr. Lescher



Mr. Higgs



Mr. F.W. Gamble



Mr. Neathercoat



Mr. Wilkinson

By
B. R. WILKINSON
22

Chemical Society's War Memorial

Mr. CRAWFORD, on November 16, unveiled the war memorial at the house of the Chemical Society, Burlington House, Piccadilly, London, W. This takes the form of a tablet, in memory of Lieutenant-Colonel E. F. Harrison, F.R.S., formerly director of the Chemical Warfare Department, and twenty-nine other fellows of the Chemical Society who fell in the war. The tablet is in bronze, mounted on marble, and represents British soldiers in a trench adjusting their gas masks. Mr. Harrison's name is on the lower limb, and the date of the war on the two arms of the Maltese cross.

The memorial is placed at the top of the staircase leading to the lecture-room of the Chemical Society. Sir James Walker, F.R.S., was in the chair. Mr. George Beilby, F.R.S., Chairman of the Harrison Memorial Committee, gave an account of the origin and inauguration of the memorial, concluding that shortly after

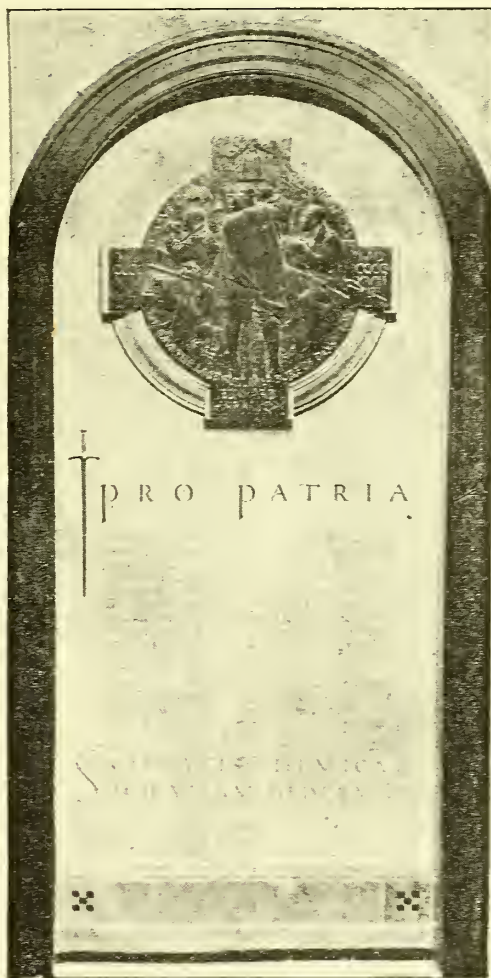
Harrison's death his friends and colleagues decided to erect a memorial in his honour. With this end in view, a fund was opened, the total amount of £500 subscribed. Part of the sum was devoted to the erection of a permanent memorial, while the remainder was devoted to the creation of a prize of £150 to be awarded every three years to a young British chemist (in the opinion of a committee composed of the presidents of the Chemical Society, the Institute of Chemistry, the Society of Chemical Industry, and the Pharmaceutical Society) shall be carried out the most distinguished original investigations in pure or applied chemistry during the previous five years. The prize shall be open both to men and women not exceeding 30 years of age, and no restriction is to be placed upon the manner in which it is to be utilised by the recipient. On behalf of the subscribers to the Harrison Memorial Fund, Sir George Beilby then asked Sir James Walker to accept the custody of the memorial and the prize fund.

On gratefully accepting the Trust on behalf of the Chemical Society, the President stated that it was a great satisfaction to the fellows of the Society to know that the Society was entrusted with the care of the memorial, with the administration of the Harrison Trust Fund. A part of the fund should be devoted to the institution of a prize to be awarded to young chemists who have done meritorious work commended itself to the Society as most wise allocation. The capable investigator at the outset of his career is sufficiently provided for by scholarships and grants, and late in life he generally has received some reward for his labours. But there is a void in which encouragement of such a prize will prove a factor in his development. The Society considers it an honour to be possessed of the memorial and to stand in the adjudication of the prize.

The Earl of Crawford and Balcarres, K.T., P.C., who was then called upon to speak, said that they were assembled to commemorate a small group of men connected with the branch of science specially represented by the Chemical Society—and in particular the service and sacrifice of Edward Harrison. These were occasions of melancholy retrospect, when we re-opened the closed book; but none the less the record of public service, the acknowledgment of heroism, the recognition of exceptional skill and distinction do carry some small compensation and, let us hope, cast a ray of comfort into the house of mourning. The memorial to be unveiled was a tribute to thirty fellows of the Chemical Society who lost their lives during

the progress of the great war. Each name is there engraved, taking its appropriate place in the Roll of Honour, and forming part of a striking work of art. He rejoiced that the memorial itself should be a beautiful thing. They had chosen wisely in selecting a sculptor of note, in placing at his disposal an admirable and well-lighted site, and giving him full freedom to develop his idea, thus enabling him to conceive a monument which is a distinction to him, a credit to the Society, and a worthy record of their deceased colleagues for all time. It was well to emphasise and perpetuate their memory. We do not ourselves forget their services, and we desire that posterity shall appreciate our veneration. We shall not act like those who disregarded the men of science in Ecclesiastes, the poor wise man who by his wisdom saved the city, and then was forgotten by those for whom he had done so much. The name of Edward Harrison stands out prominently amongst those of a gallant band called upon to protect, indeed to save, our forces from the most terrible assaults ever directed by science against an army in the field. During the spring of 1915 our troops found themselves faced by the horrors of an unknown and inconceivable style of warfare. Science terrifies, but science also protects. There was a moment of incoherence when mysterious agencies cast their death-warrant over our bewildered soldiers, threaten-

ing the life of our armies and the existence of our nation with an unspeakable cataclysm. A few months later our science asserted its mastery. British science kept pace with and finally outstripped German aggression. Though he never had the honour of meeting Colonel Harrison, he recalled a curious tumble-down little group of huts where experiments were conducted. It was difficult to penetrate into that out-of-the-word enclave, but he had occasion from time to time to see what was going on, and to share the obscure enthusiasm which prevailed among threatened men that something was being done to stave off the impending danger. Poison-gas was indeed our most implacable foe, and its intangible horrors the most subtle as well as the most lethal of all engines of war. From what he could learn, Edward Harrison possessed the power of



concentrating the accidents of knowledge and intelligence, directing them into a consistent and specific channel. He had the power of interrogation, combined with premonitions, intuitions, which enabled him to anticipate developments, and thus to meet in good time, sometimes in advance, the progress of enemy attacks. He takes his place among those illustrious men, from Jenner down to Lister, whose achievement in the noble efforts of prophylaxis conferred incalculable fame upon British science. But it is not only Harrison to whose achievement they did honour to-day. There were twenty-nine other Fellows of the Society, men of conspicuous ability in their own departments of research, men of character and promise, whose precious lives were prematurely ended. These, too, performed their part, each and all animated by the same motives of duty and patriotism—devoting themselves and ultimately sacrificing their lives in defence of all that we hold most sacred and most dear.

The Earl of Crawford, with those more immediately concerned, then proceeded to unveil the war memorial. The Last Post was sounded, and after a minute's silence the *Reveille* announced the completion of the ceremony.

Amongst those present were Mrs. E. F. Harrison, Mr. Douglas Harrison, Dr. A. W. Harrison and Mrs. Mathews (widow, son, brother and sister, respectively, of the late Colonel Harrison), Mrs. Angel, Sir Charles Sherrington (President of the Royal Society), Major-General Sir W. B. Leishman, Sir George Frampton, Sir Frank Heath, Mr. A. Chaston Chapman (President of the Institute of Chemistry), Sir Richard Gregory, Mr. F. W. Gamble, Mr. F. H. Carr, Mr. P. A. W. Self, Dr. C. R. Young, Colonel H. S. Raper, Captain J. D. Pratt, Sir William Tilden, Professor J. F. Thorpe, Professor J. C. Philip, Dr. I. Masson, Sir Richard Threlfall, Dr. Alexander Scott, and Mr. Ernest Gillick.

The names on the war memorial are as follows:—

Andrea Angel
John P. Batey
Charles M. Berlein
Arthur J. Brearley
Bertram H. Buttle
Norman P. Campbell
Frederic W. Caton
Cecil R. Crymble
John Ll. Davies
Charles W. Dick
John G. M. Dunlop
Charles G. E. Farmer
James L. Foucar
Edward W. L. Foxell
Ivan R. Gibbs

Edward F. Harrison
John M. Heron
Charles C. Iles
R. A. Seymour Jones
Maurice Kemp-Welch
Herbert King
Frank S. Long
James McConnan
Cyril D. McCourt
Raymond W. Nichols
Leonard I. Pitt
Benjamin A. Posford
William G. Saunders
Arthur E. Tate
Cecil H. Waldron

Business Changes

MR. JOHN H. McELLIN, chemist and druggist, Market Street, Kidsgrove, has opened another branch at Church Street, Audley.

H. BURNSIDE & Co., eucalyptus oil and Australian produce importers, have removed their offices to 59 Mark Lane, London, E.C.

MORTON'S CASH CHEMISTS, LTD., have taken over the business of the late Mr. J. D. Pidgeon, Ph.C., 6 Lewis-ham High Road, New Cross, London, S.E.14.

THE Pepsodent Co.'s change of address to 42 South-wark Bridge Road, London, S.E.1, does not take place until December 1. The note we published last week brought a number of orders to the new address, when, as a matter of fact, the building is not yet sufficiently forward for receiving the post.

A FRIEND IN NEED.—A letter received in the *C. & D.* office records that at Knocke, Belgium, during a strenuous period of the war, some of the windows were "glazed" with newspapers, including an issue of *THE CHEMIST AND DRUGGIST*, which, by a coincidence, had an article on Dutch pharmacy. "Imperious Cæsar, dead and turned to clay . . .": one never knows.

Parliamentary Election

THE returns in respect of the general election have been completed since we last went to press, and we are now able to give a list of new members of Parliament who have some point of contact with the drug-trade. Personal notes on these members appeared in *THE CHEMIST AND DRUGGIST*, November 4, p. 631, and November 11, p. 653. For the sake of completeness we have incorporated the few names given in our last week's issue.

SIR R. BIRD, Bt., succeeds his late father as member (U.) for West Wolverhampton.

MAJOR W. A. BOWDLER, of Bowdler & Bickerdike, manufacturing chemists, Church, Accrington, has been returned (L.) for the Holderness division of the East Riding of Yorkshire. Major Bowdler was on active service during the recent war, and was wounded at the Battle of the Somme.

MR. W. C. BRIDGEMAN, Home Secretary, has been returned for the Oswestry division of Shropshire. Mr. Bridgeman was Parliamentary Secretary to the Board of Trade in the last Government.

SIR HARRY BRITAIN has again been returned (U.) for the Acton division of Middlesex.

DR. G. C. CLAYTON, a director of the United Alkali Co., Ltd., has been successful (U.) in the Widnes division of Lancashire.

SIR WILLIAM EDGE, chairman of W. Edge & Sons, Ltd., dye manufacturers, Bolton, has again been returned (N.L.) for that constituency.

MR. C. S. GARLAND, B.Sc., F.S.C., follows (U.) Sir Charles Higham as member for South Islington.

CAPTAIN AUSTIN U. M. HUDSON, a director of Morgan Brothers (Publishers), Ltd., proprietors of *THE CHEMIST AND DRUGGIST*, has been returned (U.), after a strenuous contest, for East Islington. The figures are: Captain A. U. M. Hudson, 11,954; Sir Godfrey Baring (L.), 8,107; Dr. Ethel Bentham (Lab.), 5,900. At the election of 1918 the figures were: A. B. Raper (Co. U.), 9,352; E. Smallwood (L.), 5,986; A. J. Lewer (Lab.), 3,122; C. E. Copplestone (N.P.), 575; F. A. Wickhart (I.), 147. It will thus be seen that, following so well-known a publicist as Mr. Baldwin Raper, Captain Hudson has increased the majority over his nearest opponent. A brief account of Capt. Hudson's war services appeared in *THE CHEMIST AND DRUGGIST*, November 4, p. 631.



CAPT. A. U. M. HUDSON

SIR PHILIP LLOYD-GREAME, President of the Board of Trade, has been returned for the Hendon division of Middlesex.

SIR ALFRED MOND, Bt., who was Minister of Health in the late Government, has been returned (N.L.) for West Swansea.

COLONEL K. P. VAUGHAN MORGAN has been returned (U.) for East Fulham by a majority of 7,889.

SIR WILLIAM WHITLA, M.D., L.P.S.I. (U.), has been returned unopposed for the Queen's University, Belfast.

SIR RICHARD WINFREY, Ph.C., has been returned (N.L.) for South-Western Norfolk, his old constituency, by a majority of 1,777.

SIR LAMING WORTHINGTON-EVANS, ex-Secretary for War, has again been returned (U.) for his old constituency of Colchester. During the election campaign Sir Laming had the unpleasant experience of his bedroom at a local hotel being ransacked.

The list of the rejected is a long one. It comprises: Mr. H. S. Abrahamson, late of the British Quinine Corporation; the Rt. Hon. Christopher Addison, M.D., formerly Minister of Health; Major H. Barnes, a Parlia-

mentary critic of the Safeguarding of Industries Act; Mr. W. Bennett, chemist and druggist, Guildford; Mr. J. Brotherton-Ratcliffe, chemical manufacturer, London, E.C.; Sir John Brunner, Bt. (Brunner, Mond & Co., Ltd.); Major A. G. Church, secretary of the National Union of Scientific Workers; Mr. G. Foster Clark (Foster Clark, Ltd., manufacturing chemists, Maidstone); Lady Cooper, who contested Walsall on the retirement of her husband, Sir Richard Cooper, Bt.; Dr. F. W. Crossley-Folland, barrister and pharmacist; Mr. W. Marshall Freeman, another barrister and pharmacist; Sir Arthur Griffith-Boscawen, Minister of Health in the new Government, whose absence from Parliament is presumably only temporary; Mr. P. C. Hoffman, organising secretary of the Shop Assistants' Union; Mr. F. G. Kellaway, who was Postmaster-General in the late Government; Mr. D. Kiley, an opponent in Parliament of the Safeguarding of Industries Act; Sir George McCrae, Chairman of the Scottish Board of Health; Mr. G. le M. Mander Mander Brothers, chemical colour manufacturers, Wolverhampton; Sir William Pearce (William Pearce & Sons, manufacturing chemists, London, E.); Mr. H. H. Lesser, junior counsel for the Pharmaceutical Society of Great Britain in the "test case"; Mr. J. W. Wilson Albright & Wilson, Ltd., manufacturing chemists, Aldbury).

Parliament assembled on November 20, when Mr. Whitley was elected Speaker, and members were sworn in. The State opening was on November 23.

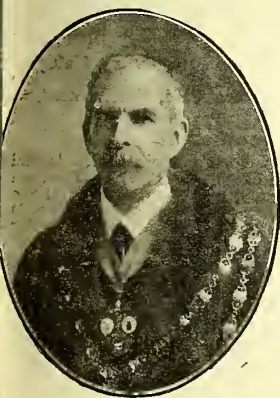
Personalities

A JUNIOR SCHOLARSHIP at Haileybury School has been awarded to Harold Chown, son of Mr. H. C. Chown, chemist and druggist, senior partner of Roberts & Co., chemists, 5 rue de la Paix, Paris.

ALDERMAN EDWARD JAMES BISHOP, chemist and druggist, who has been elected Mayor of Folkestone, an

office he previously occupied in 1910-11, is a partner in Bishop's Pure Drug Co., chemists, 460 Holloway Road, London, N.7, but takes little active part in the business. He passed the Qualifying examination in 1876. Mr. Bishop was elected to the Town Council in 1898, and was placed on the commission of the peace for Kent in 1914.

AMONG appointments on the committees of Blackburn Corporation are Councillor W. H. Grimshaw as chairman of the Sewage Committee and vice-chairman (re-elected) of the



ALDERMAN BISHOP

Education Committee, and Councillor C. A. Critchley, Ph.C., as vice-chairman (re-elected) of the Markets Committee.

Marriages

ROBERTS-HOOSON.—At Siloh C. M. Church, Llanudno, on November 14, George Roberts, Queen's Ferry, Chester, to Blanche Ellen, daughter of Mr. T. Esmor Hooson (T. Esmor Hooson, Ltd., chemists), Mostyn Street.

THOMAS-JENKINS.—At St. James's Church, Pontypool, on November 7, William Hopkins Thomas, chemist and druggist, 3, James Street, Cardiff, to Emilie J. Jenkins, second daughter of Mr. James Jenkins, Pontypool.

Deaths

BARLOW.—At High Street, Over, Cheshire, on November 13, Mr. Ernest Silas Barlow, chemist and druggist, aged sixty-one.

BLAIR.—At Waterloo, Liverpool, on November 5, Rosa Panton Blair, chemist and druggist, aged seventy-eight.

BREIDENBACH.—At Aberfoyle, Croydon, on November 17, Mr. Reginald Blackwell Breidenbach, aged fifty-nine. The late Mr. Breidenbach was proprietor of Breidenbach & Co., wholesale perfumers, 48 Greek Street, Soho, London, W. 1, a business that was established in 1793 by William Henry Page, whose only daughter married Francis Henry Breidenbach, of Cologne.

CHESHIRE.—On November 8, suddenly, Mr. Horace Fabian Cheshire, B.Sc., F.I.C., for forty-one years public analyst for Hastings, aged sixty-eight.

CLARK.—At Portsoy, on October 30, Mr. James Clark, chemist and druggist, aged eighty-six.

FERGUSON.—At his residence, 453 Romford Road, Forest Gate, London, E.7, on November 19, Mr. Joseph Johnston Ferguson, chemist and druggist, aged sixty-six. Mr. Ferguson, who served his apprenticeship in Ireland, passed the Qualifying examination in 1885. He carried on business for a time in Leytonstone, and in 1898 acquired the Forest Gate pharmacy, which he successfully developed. He is survived by a widow and two sons.

GUNN.—At Winnipeg, Canada, on October 18, Mr. George Adam Gunn, third son of the late Mr. William Gunn, Ph.C., Duns.

HOYLE.—Recently, Hannah, widow of the late Mr. James Giles Hoyle, chemist and druggist, Clitheroe, aged seventy-six.

JONES.—At 23 West Green Road, London, N.15, on November 17, Mr. Henry Santley Jones, chemist and druggist, for many years with Boots, Ltd., Swindon, aged fifty-three.

LEMOINE.—At his residence, 76 rue de Vaugirard, Paris, recently, M. Georges Lemoine, aged 81. M. Lemoine was Professor of Chemistry at the Polytechnic School and succeeded Friedel as a member of the Chemistry Section of the Academy of Sciences.

MERRILEES.—On September 5, Mr. Arthur Halsworth Merrilees, senior partner in the firm of Merrilees, De Beer & Glen, chemists, Pretoria. After an inquiry, the local coroner found that poison, self-administered, was the cause of death.

NEWBURY.—At Winchester, on November 21, Clara, dearly beloved wife of the Rev. L. A. McClintock Newbery, Vicar of Christ Church, Winchester (brother of Mr. Francis Newbery, Charterhouse Square, London, E.C.).

SHILLCOCK.—The funeral of the late Mr. Arthur Shillcock, chemist and druggist, whose death was recorded in our issue of November 11 (p. 665), took place recently at Paddington Cemetery, London. The service was attended by a large number of relatives and friends, and by the following members of the directorate and staff of Meggeson & Co., Ltd., New Church Street, London, S.E.16, of which house Mr. Shillcock had been a representative for nearly half a century:—Mr. H. V. Dodd and Mr. A. Feather (directors); Mr. W. G. Kay (secretary); Mr. Massey and Mr. Blake (travellers). Messrs. Meggeson write:—

Mr. Shillcock had a long and active career, and was highly esteemed by his many friends in the trade and by the directors and staff of Meggeson & Co., Ltd., who recognised his sterling qualities. Born at Bromley in 1847, he was educated at Oundle School, and on leaving was apprenticed in his father's old-established business at Bromley, which is still carried on by his two brothers. He had experience in various London pharmacies, including that of Corbyn, Stacey & Co. in the Poultry, E.C. Subsequently he opened a business at Duke Street, Brighton, leaving to take up his appointment with Meggeson & Co., Ltd., with whom he remained until his retirement a little over a year ago.

Trade Notes

"CIGARS FOR CHRISTMAS" is the heading of the advertisement of Sadler & Moore, Spital Square, Bishopsgate, London, E.1.

VETERINARY ANTIPHLOGISTINE has been introduced by the Denver Chemical Manufacturing Co., whose British agent is Mr. J. F. Murphy, 41 St. Ann's Road, London, E.3.

ANUSOL SUPPOSITORIES.—Chas. Zimmermann & Co. (Chemicals), Ltd., 9-10 St. Mary-at-Hill, London, E.C.3, have reduced the price of Anusol suppositories, which now sell at 3s. per box.

SYNTHETIC PERFUME MATERIAL.—Essences and Synthetics, Ltd., 4 Carlisle Avenue, Fenchurch Street, London, E.C.3, devote their advertisement mainly to synthetic perfume materials, of which they offer a wide range.

"DECORATIVE ELECTRICAL ILLUMINATION" is the title of a leaflet which is published by Ward & Goldstone, Ltd., Frederick Road, Pendleton, Manchester. It deals with fancy forms of electric light bulbs, and other lighting novelties.

LADIES' HAIR BRUSHES.—Mr. John Freeman, 10 Moor Lane, London, E.C.2, advertises ladies' hair brushes in this issue. A sample in fine white whalebone which we have seen is a well-made article and there is a complete range of brushes of good value.

ALBUMS AND MOUNTS.—Houghtons, Ltd., photographic manufacturers, 88-89 High Holborn, London, W.C.1, have just produced a new catalogue of photographic mounts and albums which photographic chemists should write for if they have not already received a copy.

CHRISTMAS GIFT LIST.—R. Hovenden & Sons, Ltd., 29-33 Berners Street, London, W.1, have brought out an illustrated price list devoted to goods suitable for Christmas trade. It is a substantial publication of over eighty pages, and covers a wide range of goods.

VACUUM FLASKS.—The Owtazin Co., import and export merchants, 50-51 Fore Street, London, E.C.2 (a business owned by Mr. John Tolmie, chemist), are advertising special lines in vacuum flasks. We have examined the three kinds mentioned in the company's announcement and find them of excellent value. The prices are given in the advertisement.

MAGNIPHONE.—The Magniphone Co., 43a Market Street, Manchester, advertise in this issue their electrical instrument for overcoming deafness. The Magniphone, as an instrument is called, is one which chemists can recommend in those cases that are relieved by hearing apparatus. The Magniphone is also obtainable from Jas. Woolley, Sons & Co., Ltd., Deansgate, Manchester.

CADBURY'S COCOA AND CHOCOLATE.—Cadbury Bros, Ltd., Bournville, Birmingham, send us samples of their well-known manufacture as a reminder that these goods, in addition to their utility at all times, are much in request as Christmas gifts. The samples include the Bournville cocoa, Bournville chocolate, Dairy Milk chocolate, Prince of Wales chocolates, King George chocolates, and Carnival chocolates. The last three are packed in fancy boxes.

GLAXO PRICES.—The proprietors of Glaxo have issued a circular giving the terms of the new price maintenance scheme, under which a profit of 20 per cent. will be guaranteed to chemists, irrespective of the quantity ordered. It is estimated in future practically the whole of the output will be sold through the drug-trade. England and Wales are divided into seven areas, with one wholesale agent each for six of these and six agents for Area No. 7, covering Yorkshire. There is also one agent at Glasgow for Scotland. It is intended to offer at intervals special bonus terms for advertising assistance.

CHRISTMAS NOVELTIES.—Chemists in search of novelties in the form of perfume, soap and face powder for Christmas trade should communicate with Thomas Christy & Co., Old Swan Lane, London, E.C.4, who have recently

shown us a number of new lines which are proving popular in respect of price and design. Among the unusual packings for the first-named are butterflies with gorgeous coloured wings, the body forming the receptacle for the perfume. Other unusual containers resemble fruits, horns, pipes and musical instruments. Another line is a porcelain scent-spray in a purse. As regards soap, "Percy Penguin" is likely to become an even greater favourite with children than other models in this material, and a "lemon," in a bag stamped with the compliments of the season, is being supplied to many chemists for presentation to their customers. Novelties such as a powder pouch, purse or cigarette-case in white kid, decorated with black cats and other designs, should appeal to customers at this present-giving season. Messrs. Christy are offering a set of display stands covered in a holly design comprising a background screen, collapsible pedestals and a tray. Three dozen mottoes, which are also obtainable separately, are included in each display. Compact powders can be supplied in styles suitable for all pockets.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, November 27

Central Pharmacy Club, Arundel Hotel, Arundel Street, London, W.C., at 8.30 p.m. Business lecture on "Methods of Fixing Selling Prices."

Wednesday, November 29

Manchester and Salford Chemists' Assistants' Association, Clarion Café, Market Street. Whist drive.

Public Pharmacists' Association, St. Bride's Institute, Ludgate Circus, London, E.C., at 8 p.m. Special general meeting.

Federation of South-Eastern Counties Pharmacists' Associations, Y.M.C.A. Rooms, High Street, Lewes, at 5.15 p.m. Annual meeting. All chemists in the area invited to attend.

Thames Valley Pharmacists' Association, Kingston Hotel, Kingston-on-Thames, at 2.45 p.m. Meeting of chemists in the district.

Portsmouth Pharmacists' Association, Southsea Club, at 2.45 p.m. Meeting to form branch of the Pharmaceutical Society. Whist drive at the Cadena Café, Osborn Road, at 7 p.m.

Thursday, November 30

Bath Pharmaceutical Association, Fortt's Restaurant. Annual dinner, at which Mr. D. J. Williams, F.C.S., Ph.C., Principal of the Bath College of Pharmacy, and past-President of the Association, will be entertained. Old students and friends of Mr. Williams invited. Tickets, 5s. 6d. each (junior members 4s.), obtainable from the College. Morning dress.

London (Western) Pharmacists' Association, Slater's Restaurant, 192, Oxford Street, W., at 8.30 p.m. Mr. G. E. Marfit on "Window-dressing," with Lantern Displays by Mr. H. Mills.

Imperial College of Science and Technology, South Kensington, London, S.W. Exhibition of spectacle wear, ophthalmic apparatus, etc., under the auspices of the Optical Society of London, from 5 to 8 p.m. Various papers will be read. Admission free.

Information Department

INFORMATION WANTED

- | | |
|--|---|
| B/2111. Advertisement writer with good knowledge of trade | B/1811. Insulin (supply in London) |
| H/1911. "Alquitran" | S/2111. Kelpion ointment |
| B/2211. Anti-catarth Wool | P/1811. Lantern slide, list marked G.W.W. |
| G/2011. Cheap ether for starting motor tractors that can be retailed by the pint or gallon | W/1811. "Magic" atomisers |
| T/1811. Corn rubbers | K/1811. Mogadi Soda Co., Ltd. (address) |
| L/2111. Gibbs' Gout Specific | Z/1811. Neothesine |
| L/2111. Hooper James' Powder | P/2111. Oval chip boxes |
| A/2211. Kennedy's Medical Discovery (London agents) | R/1511. "Rubicon" for disinfecting hospital bedding |
| | W/1811. Une Rose Perfume Gerantian Parfumerie |
| | S/611. Willow Sugar (for preserving cider) |

Observations and Reflections

By Xrayser II.

The New House of Commons,

though it has lost some of the most distinguished members of the late House, is, on the whole, an improvement upon it. The Opposition especially has gained greatly in the character of its personnel. A strong Opposition is, as I said last week, a great advantage, acting both as a check and as a stimulus. The most satisfactory result of the election is, however, that we have now a Government which may be presumed to know its own mind, which is, at any rate, all of one colour, and may be trusted to adhere to a consistent policy. The most dangerous man in politics, and the one most difficult to deal with, is Mr. Facing-both-ways, and we may hope that we have seen the last of him for some time. We are told that the new Government's policy will be a negative one. That may be its intention, but a negative policy is really an impossibility. There is no standing still in politics any more than in life; not to advance is to fall back; we must in the nature of things be either progressive or reactionary. For those who desire progress there is, moreover, this consolatory thought—that reaction itself is apt to result in progress; there is always a rebound in the other direction. The knowledge of this fact will not be lost even on the "die hards," and the probability is that the policy of negation will prove to be one of moderated progress.

Progress "

is, of course, a term that means little or nothing in itself: its value depends upon the direction in which progress is made, and as applied to politics it may stand for diametrically opposite movements. The essence of government is the adjustment of the liberty of the individual citizen with the well-being of the community as a whole. As individuals we want all the liberty we can get, and we chafe at such restrictions as we are placed under in the interest of others, and, indeed, in our own larger interest as parts of the whole. The two ideals of strong government and the greatest possible amount of personal liberty are not necessarily incompatible, but in practice they often conflict, and they have been said to be the distinguishing marks of the "conservative" and the "progressive" mind. That is perhaps questionable: what is called "grandmotherly government" is by no means most characteristic of the "conservative" party. As pharmacists we have suffered most from it at the hands of a Government representing both parties, and now that these parties have fallen out we may perhaps to some extent come by our own again. But this is by the way. Neither our own immediate interest nor that of the class to which we belong should blind us to the larger aspect of government: to say that it should be the expression of the people's will is, I am afraid, to say very little, for not one in a dozen of the people to whom I have spoken on the subject could give any reasoned reply to the question why they voted for this or that party, or had anything whatever to say about the principles of government. I can, in fact, think of no better definition of the function of government than that with which I began, and the "progress" I desire to see is in the direction of the reconciliation of the two ideals of personal liberty and national well-being.

Truth is Great

and will prevail (says Coventry Patmore) when nobody cares whether it prevails or not. But the truth is that the present education of pharmacists is sufficient for shopwork seems to be prevailing already in one quarter where its triumph was least expected. Mr. Peck admits it. I am afraid, however, that his proposed division of our curriculum from the very beginning into two branches is not feasible. I see nothing for it but that we must all run together till we come to the parting of the ways after, let us say, the Qualifying examination. Of course, it is open to those who from the beginning intend "the higher branch" to

prepare themselves for it by passing any preliminary examination that may be required of them, but that there should be two standards of the Preliminary required of apprentices to the Society is another matter. An official distinction between one class of apprentice and another would work confusion, and would, so far as I can see, have no advantage. The first thing the pharmaceutical postulant aims at is qualification, and up to that point nothing should be demanded of one that is not demanded of all. If anyone wishes to do more than is demanded for that purpose, well and good; but that is his own private affair.

Mr. Peck's Speech

at the other meeting in Leeds will be, I fancy, a little disquieting to the old members of the British Pharmaceutical Conference. There was always a fear that the absorption of the Conference by the Society would mean its transformation into a political engine, and what Mr. Peck said of it lends only too much colour to that opinion. It is to be essentially a conference of delegates, whose deliberations will be "the considered opinion of the branches, and therefore a perfect lead to the Council of the Society and an ideal scheme of organisation." This is letting the cat out of the bag with a vengeance. The zeal of the Society for the advancement of "the science of pharmacy" by means of the B.P.C. turns out to be part of a "scheme of organisation" which is gradually breaking up local Federations and capturing the Associations composing them. It is too likely that, as Mr. Peck said, most chemists do not yet fully realise what has been and is being done, but some of us have foreseen it all along. The worst feature of the scheme as it gradually unfolds itself is the one I have indicated above, the subordination of everything else to political uses. The delegates to the Conference will not meet to discuss scientific questions; business matters have already been handed over to the Retail Pharmacists' Union; we dare not go to Parliament for a new Pharmacy Act. What is all this organisation going to do for us?

Mr. Gifford

is as much honoured by the form which at his request the presentation made to him by the pharmacists of the district took as by the fact of the presentation itself. His services to the Society and the craft at large are unquestionable, and his career as a councillor (to speak of nothing else) deserved the acknowledgment he has received, and more. Mr. Gifford is, however, somewhat more of a personality than goes to the making of a mere councillor, and he made his personality felt in many directions. I suspect that he was often felt as a thorn in the flesh by the Council, of which he had before his admission to it been a strenuous critic. The cry of pharmacy for the pharmacist, by which he forced his way into the charmed circle, still needs to be kept alive: his ideal has not yet been realised—indeed, in some respects we have since lost ground as administrators of the Act of 1868, the full enforcement of which, both in spirit and letter, he was "out" to secure—but that is not his fault. I venture to think that the President of the Society took a little too much advantage of the occasion offered him by the presentation to push his own views and those of the present Council. And Mr. Gifford himself was, in my opinion, wrong when he said that the last twenty-one years were the most important in the history of pharmacy, if by that he meant pharmacy as represented by the Society. Birth, surely, is the most important event in a man's history—or a Society's.

MEDIEVAL RELIC DISCOVERED.—During recent excavations at Bermondsey on the site on which a new building is to be erected for the Anglo-American Oil Co., Ltd., a stone bearing the consecration mark of Bermondsey Abbey was found. This stone is stated to be the only one in existence, the others having been destroyed in the time of Henry VIII. A monastery was founded in 1082, in what was then the Meads of Bermondsey. Later the monastery was raised to the dignity of an abbey.

With Only **The McCaskey SYSTEM** The End of Dradgery
One Writing

FIRST AND STILL THE BEST

CREATES CONFIDENCE

THE McCaskey Register Co., Watford

(4)

S.V.R.—Absolute Alcohol
AND
CHEMISTS' WINES.
Jas. Burrough Ltd. D.1 Cale Distillery, Hutton Rd.
LAMBETH, S.E.11.

M. NAEF & Cie (late CHUIT, NAEF & Cie),
GENEVA.

HAVE MANY SPECIALITIES IN
SYNTHETIC PERFUMES
OF EXCEPTIONAL QUALITY

SOLE AGENTS:

P. SAMUELSON & CO., 27 Mincing Lane, London, E.C.3

WHO ARE ALSO DIRECT IMPORTERS OF
MUSK, CIVET, and all ESSENTIAL OILS.

Telephone: Minories 1660.

Telegrams: "Moschus, Fen, London."

"SANITAS" EMBROCATION

**SHOULD BE STOCKED
BY ALL CHEMISTS.**

Telegrams:
"GINGERADE, FEN,
LONDON."



Telephones:
MINORIES 1544
(3 Lines).

"LEVIATHAN" BRAND.

FOR CERTAIN MANUFACTURING FIRMS,

ESSENTIAL OILS

ARE

ESSENTIAL.

FOR THESE PARTICULAR FIRMS,

The HOUSE OF HOBBS,

WITH ITS LARGE AND VARIED STOCKS OF

FINEST PURE ESSENTIAL OILS,

IS

ESSENTIAL.

Verbum sat. sapienti.

W. H. HOBBS & CO., LTD.,
TRINITY PLACE, LONDON, E.C. 3.

**500 FOLDERS PRINTED
WITH YOUR OWN
NAME AND ADDRESS** and
supplied to you with one com-
bined case of



which also includes show-cards and leaflets, and offers you
a profit of over 50 per cent. on cost. Just send a post-card
for full details.

HARPIC CO., Dept. 10 C. K., 1 Avenue Road, London, S.E.5

STANDARDISED GALENICALS.

RANDALL & WILSON, LTD.

Wholesale Druggists,
SOUTHAMPTON.
Established 1792.

Insulin Diabetes Treatment

WHAT promises to be an advance in the treatment of diabetes is reported from Canada. It involves the use of a hormone, to which the name insulin has been applied, this principle being prepared from the pancreas of the ox, pig or sheep. The origin of the remedy is scientific work carried out in the laboratories of the Toronto University under the direction of Dr. J. J. R. Macleod, Professor of Physiology in the University. The pancreas,

As is well known, secretes a fluid which digests proteins, fats and carbohydrates, but in addition to the cells which secrete this fluid there are groups of cells known as the "islands of Langerhaus," from the physiologist who first detected them. It is found that these "islands" have important functions of their own, and that without them the sugar of the blood cannot be utilised but tends to accumulate and is removed by the kidneys. In other words the "islands" secrete a hormone of different properties from the pancreatic juice. Experiments on animals showed that if the pancreas is extirpated the complete metabolism of sugar cannot take place, and the animal dies within four weeks from diabetes. On the other hand life was prolonged if pancreas extract was administered to the animal. The next step was to prepare the antidiabetic hormone in an active state, free from trypsin, which has a destructive action upon it. The first method was to employ alcohol as a selective agent in the extraction of the hormone insulin and some of the extract administered to a boy suffering from diabetes was found to reduce the blood sugar by about 25 per cent. Further investigations were then carried out as to the best methods of preparing insulin, and a method devised of fractional precipitation with alcohol. Next the pharmacological assay was studied by injections in rabbits being found to lower the percentage of blood sugar. A unit was taken as the amount of insulin which on subcutaneous injection can lower the percentage of blood sugar to 0.045 within four hours in a rabbit weighing about 2 kg. from which food has been withheld for sixteen to twenty-four hours. The insulin was then prepared so that 1 c.c. contains one unit. Then followed a series of physiological and clinical investigations, and the good effects which followed the administration of insulin to rabbits also took place in man. Insulin administered subcutaneously in adequate doses is capable within a short time of removing the principal symptoms of diabetes for several hours. If injections are repeated twice daily and continued the whole of the symptoms of the disease disappear. The manufacture of insulin was next worked out on a large scale, and to prevent the "uncontrolled commercial exploitation" of insulin the methods were patented and licences are to be issued to those manufacturers who are in a position to carry out the strict requirements of the manufacture and physiological standardisation. The patents have been assigned in this country to the Medical Research Council, free of charge. Representatives of the Council have visited Canada and the United States to examine the method of manufacture and study the conditions of administration. Insulin is not yet available in this country, and it is not likely that more will be obtainable for some time than is necessary for experimental purposes. Conditions are being drawn up under which licences will be granted to private manufacturers to use the insulin patents, provided they possess proper facilities for making and assaying the extract. It may, however, the Council state, be necessary to establish a special organisation to carry out the manufacture. There is sure to be a large demand for the remedy, and we hope that it will be available quickly for the relief of the many sufferers from diabetes.

Dangerous Drugs in Sweden

In order to control effectively the importation and wholesale distribution of opium, morphine, heroin and cocaine, the Swedish medical board proposes to create a Government monopoly of these drugs. If this proposal receives the royal assent, the Swedish medical board, which is a

Government department charged with the supervision of all matters referring to the exercise of the medical, pharmaceutical, dental and veterinary professions in the kingdom, will alone be empowered to import and distribute these drugs to pharmacists, thereby eliminating entirely the handling of the drugs by the wholesale drug houses. In view of this proposal, Swedish pharmacists have decided to form a co-operative association of Swedish pharmacists, an undertaking designed to assume on a co-operative basis the importation of drugs, manufacture and distribution on a wholesale scale of pharmaceutical products to the members of this association. In other words, Swedish pharmacists propose to eliminate the existing wholesale houses, in order to obtain their supplies through their own organisation. A first meeting of representatives of owners was recently held in Stockholm, at which a provisional board was elected to elaborate the statutes of the new association. At the same time it was decided to approach the government with the request that the monopoly which it is proposed to grant to the medical board of being the sole authority empowered to import and distribute opium, morphine, heroin and cocaine should be vested in the new co-operative association of Swedish pharmacists. On their part, the wholesale drug houses have presented a memorandum to the government, protesting against the proposed infringement of their trading rights. In this memorandum, they point out, *inter alia*, that although illicit drug-taking is practised on a very much greater scale in such countries as France and Great Britain than is the case in Sweden, neither of these countries has considered it necessary to introduce a government monopoly in dangerous drugs. It is further pointed out that the existing restrictions are sufficient to ensure that these drugs shall be used only for legitimate purposes, and in this connection they refer to the agreement entered into between the British and Swedish Governments of August 29, 1921, regulating the importation and exportation of these narcotics between the two countries. This recent step of the Swedish medical board, to secure for itself a monopoly of the wholesale trade in narcotics, is of particular interest in view of the determined efforts made for some time by this board to obtain a controlling influence on the manufacture and importation of pharmaceutical preparations, as evidenced in the alterations recently proposed by the medical board in the existing regulations on the sale of medicinal agents, which were reproduced in THE CHEMIST AND DRUGGIST.

Income-tax and Trading Expenses

It is possible that some time or other the law as to income-tax accounts may be brought into harmony with ordinary commercial practice. At present the points of difference between the systems are difficult not only to defend but even to explain. Let us take as an illustration the case of the income of an ordinary trader assessed on the profits of his trade or business under Schedule D. The recognised profits of a trade or business are the surplus by which the receipts from the trade or business exceed the expenditure necessary for the purpose of earning these receipts. That, of course, implies that before we arrive at the net taxable profits we ought to deduct ordinary trading expenses, yet when we turn to the rules of income-tax law, we find deductions ruled out in defiance of the clearest business practice. An expense is not allowed unless it is wholly and exclusively laid out for the purpose of producing the profits which are taxed. An example or two of the eccentric working of this rule

should be enough to prove the need for its revision, or, at all events, its less rigid application. An allowance is made for trade expenses under the heading of "Rates and Taxes," but this does not include the sum paid by the trader for income on property tax. Again, if a firm pays a lump sum under an agreement by way of commutation of a salary or allowance payable to a retired official, it cannot deduct the sum so paid from its profits returned for income-tax. But if it pays an annuity by way of pension to such an officer on his retirement, this may be deducted. Or, to turn to one of the commonest heads of trade expense in modern business life—advertising. The question of whether costs of advertising are a legitimate deduction in arriving at the net taxable profits of a business has never been directly decided, and a judicial dictum that whether or not they are allowable in any particular case depends on the circumstances of the case, may be taken to represent the state of the law on the point. It must be said that on the whole the tax authorities are not inclined to adopt too stringent a rule as to this class of trade expense, though they have not yet, so far as we know, taken the logically defensible step of allowing subscriptions by traders to trade journals. Expenditure on catalogues, price lists, advertisements in trade journals of the trade engaged in, or even the cost of stalls at trade exhibitions are admitted as deductions. On the other hand, the cost of booming a new article would probably be disallowed as being a capital expenditure. The question, too, of the treatment of contributions by traders to trade associations cannot be said to have reached a satisfactory solution, in spite of some judicial decisions. In a case in which a trade association devoted the whole of its means to paying members an indemnity on any deficiency in output due to strikes or other causes, it was held that the payments made to the association by members were not deductible. But where a pooling association existed for fixing prices, preventing competition among members and thus increasing profits, returning certain sums to members who receive less than the agreed sums, it was held by the Court that the excess of any member's subscriptions over his receipts might be deducted in his return of profits for income-tax. The general principle followed is to allow as a deduction what is paid as an outlay to earn profit, but not anything which is merely an application of profit earned. As Parliament went through the form of passing a consolidating income-tax Act as recently as 1918, it would be too much to look for a comprehensive measure in the immediate future, which would put the law on the subject on a footing adjusted to the conditions of modern industry. Something might, however, be done from time to time in the annual Finance Act to get rid of the more glaring incongruities of income-tax law.

Vaccine for Insured Persons

THE Ministry of Health has informed the Panel Committee for London that vaccine against smallpox, required for insured persons, must not be ordered by means of a prescription as is done with drugs. The doctor must write a prescription in respect of each person vaccinated and forward this with form D.6, filled in and the invoice for the lymph to the London Insurance Committee, when repayment will be made within a month. The Minister of Health has stated that the fact that treatment can be obtained from a public vaccinator would not in itself justify an insurance practitioner refusing to vaccinate one of his insured patients who desired him to perform the operation. The supply of vaccine from the Government Lymph Establishment is available for the use of the public vaccinator only, and for medical officers of health for the vaccination of immediate contacts of persons suffering from smallpox.

The "Year Book of Pharmacy"

THE "Year Book of Pharmacy" for 1922 reaches us this week, and despite the change of ownership its appearance and form is the same as in previous years. The new constitution and rules, necessitated by the absorption of the Conference, replace those which always occupied the first page of the work. In the list of officers, the man who does the work takes second place as "chairman," the President, according to the new constitution, being the President of the Pharmaceutical Society for the time being. The Year Book occupies 546 pages, against 484 pages last year. The report of the Nottingham meeting occupies about two hundred pages, and there is a portrait of Professor H. G. Greenish as a frontispiece. The abstracts are classified into chemistry, pharmacy, new remedies, notes and formulæ, etc., these, in some cases, being sub-divided. The work is edited by Mr. J. O. Braithwaite and Mr. C. H. Hampshire, and Mr. Thomas Stephenson has compiled the new remedies section. The publishers are J. & A. Churchill, 7 Great Marlborough Street, London, W.

Drug Imports into Mexico

THE Mexican Consul General in London announces that his Government, with a view of restricting the importation into the Mexican Republic of all such drugs, narcotics, and "dopes" as are injurious to public health, has issued instructions to all its Consulates abroad, to acquaint exporters of these goods that no consular invoices covering these drugs may be legalised hereafter, and that the introduction of the drugs into the country is strictly prohibited unless a special permit is obtained beforehand from the Department of Health (Departamento de Salubridad) at Mexico City, which permit must be presented at the Consulate at which the respective invoices are legalised. In order to avoid the infringement of any laws or regulations that may prevail in other countries with regard to the export of the said goods, the Mexican Government has further disposed that those who have already obtained the above permit shall also require a sanction or licence from their respective authorities, and at the country from which the shipment is made. The drugs that are included in the above regulation are:—

Opium, raw, in powder, and extract of.
Morphine, its salts, and products of.
Heroin (diacetylmorphine and its salts).
Thebaine.
Papaverine.
Laudanine.
Narceine.
Cocaine and its salts.
Dionine (chlorhydrate of ethylmorphine).
Peronine (chlorhydrate of benzylmorphine).
Stovaine (chlorhydrate of amylene).
Marihuana.
Papaver Somniferum.
Eucaines.

All preparations which contain any or part of the drugs specified come under the same category of prohibited goods.

SUPPLY OF RADIUM.—Madagascar will, it is claimed, supply half the quantity of radium produced in the world. Two years ago it was found that the island was rich in radio-active minerals. Last year nine tons of uranium oxide was exported, and this year the quantity will probably reach eighteen tons.

DANGEROUS DRUGS ACT.—Dr. Hugh Woods, in the "British Medical Journal," writes: "Some years ago there was vigorous agitation in favour of measures to put a stop to objectionable traffic in opium. I am quite convinced that this was largely fostered in the interests of an unscrupulous section of the persons engaged in that objectionable traffic, or interested in it. Now we have good people supporting legislation to suppress improper traffic in the so-called 'dangerous drugs,' (cocaine, etc.). I have little doubt that the same sort of influences are working secretly behind them, and behind the newspapers which have given so much of their space to the subject. The result, if I am any judge, is an increase in the misuse of cocaine, through the unprecedented advertisement given to the drug, and very large profits to traders of the worst types; and, at the same time, loss and inconvenience to honest and reputable traders and doctors."

Pharmaceutical Society Of Ireland

Council-meeting

The monthly meeting of the Council was held at 67 Mount Street, Dublin, on November 14, Dr. A. J. Les, President of the Society, in the chair. The following members of the Council were also present: Dr. J. A. Mitchell, Dr. J. A. Walsh, Messrs. D. M. V. (Treasurer), Victor E. Hanna, John Smith, Hew Wilson, J. Carroll Culbert, J. A. Bingham, F. Storey, Samuel Suffern, James A. Doyle, Wm. J. Fy, James Michie, G. A. McLean Lee, F. J. Fitz-ck, M. Ryan, and D. J. Nugent. Mr. J. E. Connor, Newry, wrote regretting his inability to attend.

CHANGES OF ADDRESS

The following wrote notifying changes of address: W. H. V. McKay, Ph.C., to 5 Gray's Hill, Bangor, Down; Mr. John Taggart, Ph.C., to the Crumlin Pharmacy, Crumlin Road, Belfast; Miss Evelyn Wright, Ph.C., Eglinton Terrace, Portrush; Mr. David Meehan, Ph.C., the Athy Pharmacy and Medical Hall, The Square, Athy, Kildare; Mr. V. Hood Nicholson, Ph.C., to Elgin Place, Ball's Bridge, Co. Dublin; and Mr. Thomas J. May, L., to Nelson Street, Wallsend, New South Wales, Australia.

PRELIMINARY REGISTRATION

The following, who submitted certificates of other Licences, were admitted to Preliminary registration: Miss Catherine Troy, care of Mr. W. J. Nolan, M.P.S.I., Main Street, Dungarvan, co. Waterford; Miss Sophie Egan, 102 Donore Terrace, Dolphin's Barn, Dublin; Mr. Thomas V. Plunkett, 8 Foster Terrace, Ballybough, Dublin; John L. Spence, 22 Seymour Street, Lisburn; and Mr. Armstrong, Stonebridge, Clones, Co. Monaghan.

REPORTS FROM EXAMINERS

The REGISTRAR (Mr. A. T. Ferrall) submitted reports to the Examiners upon the Preliminary, Pharmaceutical Licence, Pharmaceutical Assistant, and Registered Druggist examinations. For the Preliminary examination twenty-three candidates presented themselves, of whom eleven passed. For the Pharmaceutical Licence examination sixteen candidates presented themselves, of whom eight passed, four with honours. Four of the candidates were ladies, two of whom passed and passed with honours. Of the twelve gentlemen candidates passed, two with honours. There was one candidate for the Pharmaceutical Assistant Examination, and he passed. For the Registered Druggist examination, which was held in Dublin there were three candidates, two of whom passed. Mr. Henry Hunt, examiner in materia medica and pharmacy, on the completion of his term of office, wrote thanking the Council for the confidence placed in him, and expressing his gratitude for the great help given him by Mr. Ferrall.

Reports were received from the Law Committee, the House Committee, and the Registered Druggist Committee and adopted.

COMPOUNDERS IN PUBLIC INSTITUTIONS

Arising out of the minutes of the Law Committee, a paper was read from Mr. P. Liston, hon. secretary of the Limerick and District Retail Chemists' Association, who wrote on October 13:

At a meeting of the above branch of the L. & D.R.C.A., held on the 10th inst., it was unanimously decided to call your attention to the following:—Mr. J. MacMahon, who is compounder for 22 years to the Limerick Workhouse, is granted an abolition allowance of £139 odd by the Board of Guardians. The L.G. Board have refused to sanction same, stating that the position is not pensionable, though the rest of the medical staff have been granted air allowances. It is the wish of the members of this branch that action should be taken by your Council to safeguard the interests of your licentiates. Further, we notice in an advertisement has appeared (copy enclosed) for an assistant whole-time medical officer experienced in compounding for vacancy in Limerick Workhouse. This appointment will be made on Tuesday, 17th inst., and will, of course, abolish the office of a pharmaceutical compounder. Your attention to above matter will much oblige.

The advertisement referred to was as follows:

Assistant Medical Doctor Wanted.—The Committee of Management, Limerick City Home and Hospital, will, on Tuesday, 17th, appoint an assistant whole-time medical doctor for a period of one year at a salary of ——— with apartments, fire, and light. Must be fully qualified and experienced in compounding. Applications with qualifications and testimonials should reach me not later than Monday, 16th inst.—J. Quilligan, Secretary.

Mr. J. J. MacMahon, M.P.S.I., 8 William Street, Limerick, wrote asking the Registrar to draw the attention of the Council to the following matter:

On June 13 last I was granted, on the abolition of office, a pension of £139 19s. 7d. by the Limerick Board of Guardians in consideration of my 22 years' services as compounder to the Limerick Workhouse. The L.G. Board have refused to sanction same on the grounds that the office of compounder is not pensionable. All the other officers' pensions and gratuities, including the visiting medical staff, granted at the same time, have been sanctioned. As this decision of the L.G. Board affects, I am sure, a good number of the members of the Pharmaceutical Society, I trust your Council will take immediate steps to have the matter rectified.

There was also a letter from Mr. James Barry, M.P.S.I., the Medical Hall, Boyle, whose office as apothecary to the Boyle Workhouse Hospital was abolished, asking the Council to use their good offices with the Local Government Board, with a view to having his claim for a compensation grant liquidated.

Mr. P. Monaghan, M.P.S.I., wrote that a vacancy for a chemist occurred in the Monaghan and Cavan Asylum, that the Committee advertised the vacancy, and that he had been appointed. The letter proceeded:

The L.G. Board, Dublin, now says that the junior medical officer must do the dispensing. What does the Pharmaceutical Society say to this? In the interest of chemists the case should be looked into, as a similar ruling would ultimately apply to all Ireland.

It was decided to request the Local Government Board to receive a deputation representing the Council in reference to the questions raised by the letters, and that, in the event of the request being acceded to, the deputation should consist of the President (Dr. Barnes), Mr. M. Ryan, and Mr. Wm. C. Meeke, solicitor, Law Adviser to the Society.

IRISH CERTIFICATES IN NEW SOUTH WALES

Arising out of the report from the Law Committee, the PRESIDENT said they had had no direct communication from their contemporaries of Australia. But a report had appeared in the Press stating that the Licences of the Pharmaceutical Society of Ireland would not be recognised in New South Wales in future. They had been recognised up to then. He thought that what precipitated the matter was that a few of their licentiates had intended to go to New South Wales and set up there, but when they came to make inquiries they found that their certificates would be of no use there. The Law Committee took the matter up and sought legal advice on the question of reciprocity. They were informed that they were absolutely debarred legally from accepting any other certificates; and, therefore, much as they would like to do so, they could not reciprocate with New South Wales. So far as he could gather from the report which appeared in the Press, they were very much disappointed in New South Wales that the Irish Society could not reciprocate with them; and that perhaps led to the stopping of the recognition of the Irish certificates. In the new legislation which was contemplated for pharmacy under the new status of Ireland they would, no doubt, obtain the necessary powers to reciprocate.

SEALING OF PHARMACEUTICAL LICENCES

The Pharmaceutical Licences of the following were directed: T. R. Bourke, Mary P. Christy, Eveline Hoy, W. H. Roche, J. J. Anderson, R. H. Peake, E. S. Long, and F. S. J. Smith.

ELECTIONS OF MEMBERS

The following were elected as members:

Mr. S. Gamble, Ph.C., 73 Woodhouse Street, Portadown; Mr. M. H. Jeffares, Ph.C., Scarke House, New Ross, Co.

Wexford; Mr. M. Mahony, Ph.C., 23 High Street, Kilkeny; Mr. T. McGurk, Ph.C., Cromac Square, Belfast; Mr. J. Nolan, Ph.C., Medical Hall, Carrickmacross, Co. Monaghan; and Mr. John Wellwood, Ph.C., care of Mr. J. Hill, Ph.C., Castle Street, Strabane.

APPOINTMENT OF EXAMINERS

The following examiners were re-elected: Mr. T. A. W. Hill, M.A., B.Sc., for the Preliminary examination; Professor Hugh Ryan, M.A., D.Sc., in chemistry; Mr. J. T. Dwyer, M.P.S.I., for the Pharmaceutical Assistant examination; Dr. F. E. Preston, M.P.S.I., for the Registered Druggist examination; and Mr. Charles E. Digges, M.P.S.I., Sandford Medical Hall, Ranelagh, Dublin, was elected an examiner in materia medica and botany, in place of Dr. Hunt, whose full term of five years has expired.

THE EDUCATION COMMITTEE

Mr. CULBERT proposed, in accordance with notice of motion:

That the Education Committee be re-appointed and empowered to consider the question of preliminary and professional education in all its aspects, and directed to report to the Council, if possible, within three months.

Mr. STOREY seconded.

Mr. WATSON suggested that under the wording of the resolution the question of the abolition of the Preliminary examination was one of the questions that might be considered by the Committee.

Mr. MICHIE said he understood that the question of the abolition of the Preliminary examination was not to be considered at all. The Council had voted on that proposal before, and was against it.

Mr. WATSON said he thought it was a pity that question was not put in the resolution. He thought, however, that it could be read into the resolution, the words of which were "the question of preliminary and professional education in all its aspects."

Mr. HANNA said the Preliminary examination brought them in the biggest income of any of the examinations.

Mr. SMITH drew attention to a statement published in *THE CHEMIST AND DRUGGIST*, October 21, in reference to the Irish Preliminary examination, and expressing the views of the Northern members of the Committee. Were the Northern members of the Committee authorised to publish their views irrespective of the opinions of their Southern colleagues? Were they authorised to throw mud at the Society's licentiates and at their examinations in the way they had done? He considered the Council ought to know exactly where they stood in regard to that Committee. They had no right to publish any report, although they might say that this statement did not express their own views, but the views of certain persons who were called in for consultation. They had published statements of the views of Dr. Harrett Murphy, one of the Society's examiners, and of Professor Small, of Queen's University. These were very able men. But he (Mr. Smith) thought it was a great mistake that it should go forth that their Preliminary examination was only fit for errand boys. He wanted to know under what circumstances that report had been sent to *THE CHEMIST AND DRUGGIST*.

The PRESIDENT said he had not been able to be present at the last two meetings of the Education Committee, and he was not in a position, therefore, to say whether there was any authorisation for the publication of anything in the Press. Personally he must say that he was very much disappointed at seeing that report in *THE CHEMIST AND DRUGGIST*. He thought its publication was a bit premature, and that they might at least have waited until the Committee was somewhat further advanced with its work before publishing anything.

Mr. MICHIE said as far as he knew the report did not emanate from the Committee. Each member of the Committee got one of these pamphlets enclosed to him. The Committee gave no authority to publish this matter. It was a private correspondence.

Mr. WATSON said he thought it was an extraordinary thing, when a Committee was meeting, to publish a part of documents which were being considered by that Committee. He thought every member of the Committee

and nobody else got that statement. No members of the Council got it. He considered that it was a confidential document for the Committee; and he was amazed to see it published in *THE CHEMIST AND DRUGGIST*, particularly as it contained animadversions on the Preliminary examination and on the whole tone of the Society. If it emanated from a member of the Council it showed, not loyalty to the Council and to the Society, but loyalty to somebody else.

Mr. CULBERT said perhaps it would shorten the discussion if he said that he was responsible for handing that statement over to the local correspondent of the Press, for this reason: that the Committee had ceased to sit, and so they were perfectly at liberty then. The proposal in the resolution was for a new Committee; and the wording was so arranged that, short of taking Mr. Meeke (the Law Adviser) into their confidence, they could not draft it any wider. It was futile to say that education did not mean examination.

Mr. WATSON said he certainly had no idea that the Education Committee was dissolved. Nothing took place at the last Council meeting to indicate that it was to be dissolved. The wording of this resolution had surprised him too, because there was no idea in his mind that the Committee needed to be reappointed, the only thing needed being that the terms of reference should be widened. Mr. Culbert's explanation about the publication of the document in *THE CHEMIST AND DRUGGIST* certainly did not go down with him (Mr. Watson).

Mr. WILSON supported the resolution. He supported it, he said, owing to a perfect conviction that the greatest benefit that they could get for their business would be a better education. He did not mind a man holding an opposite opinion. Mr. Michie had an instinct that the present Preliminary examination should remain. He (Mr. Wilson) did not quarrel with that. But there was something higher than instinct; there was the bringing of their mental powers to bear on their instincts and improving them. The Committee had to sit and hear evidence and to formulate a common-sense report on the evidence. He very strongly recommended the resolution to the Council.

Mr. MICHIE said he was not against improvement in education. He was quite willing that education should be improved in any way. But he was not prepared to see the Preliminary examination abolished. He thought its abolition would be a great mistake. That was his sole objection.

The resolution was passed.

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1922, p. 277.

(From "The Trade-marks Journal," November 8, 1922.)

"HIMALAYA," under oval mountain scene ("Himalaya" disclaimed; for perfumery, etc. (48). By the Erasmic Co., Ltd., Bank Quay, Warrington. 427,561.

"ANTHEA": for perfumery, etc. (48). By Elysée Lacton, 31, St. Ann's Chambers, Ludgate Hill, London, E.C.4. 428,774.

"HYPATIA": for perfumed soap (48). By R. Wheen & Sons, Ltd., Deptford Creek, London, S.E.8. 423,809.

"CHLORAMOL": for hair preparations (48). By J. E. Ellis, Ltd., Station Road, Horsforth, nr. Leeds. 429,243.

"SHEELTOMIC": for a hair preparation (48). By R. Dickson, 116, New City Road, Glasgow. 429,369.

"KEENOK," on circular device; for a razor-sharpening outfit (50). By Keenok Co., Ltd., 9, Bishopsgate, London, E.C.2. 426,485.

"WENDY": for hair combs, etc. (50). By J. M. Ortega, "Summerfields," Spimney Hill, Addlestone, Surrey. 428,417. (Associated.)

(From "The Trade-marks Journal," November 15, 1922.)

"EUMOL": for chemicals (1). By Badische Anilin & Soda Fabrik, Ludwigshafen-on-Rhine, Germany. 428,821. (Associated.)

"DESERITE": for chemicals (1). By the Liverpool Borax Co., Ltd., Old Swan Works, Borax Street, Liverpool. 429,295.

"PEACE": for disinfectants and insecticides (2). By C. F. S. Billbrough, Hill House, Burnham-on-Crouch. 427,697.

Reviews of Books

Text-book of Organic Chemistry. By A. Bernthsen, Ph.D., revised by J. J. Sudborough, Ph.D., D.Sc., F.I.C. 7½ by 5½ in. Pp. 908. 12s. 6d. Blackie & Son, Ltd., 50 Old Bailey, London, E.C.

This is Bernthsen's organic chemistry in English completely revised by Dr. Sudborough, Professor of Organic Chemistry in the Indian Institute of Science, Bangalore, who has added chapters on the following subjects: (1) some cyclic systems, (2) organic derivatives of arsenic, (3) synthetic drugs, (4) synthetic dyes, (5) chemistry of rubber. "Bernthsen" is well known to advanced pharmaceutical students, and it will be recognised that two-thirds of the new chapters have increased the usefulness of the work to them. The chapter (LIII.) on the organic derivatives of arsenic gives a summary of the chemistry of such substances as atoxyl, soamin, salvarsan, neo-salvarsan, and luargol. The synthetic drugs dealt with in another new chapter are divided into (1) antipitics, (2) hypnotics, (3) antipyretics, (4) diuretics, and (5) synthetic alkaloids. The interdependence of the synthetic drug and dye industry is insisted upon. The chapter on dyes is an able summary of a large and difficult branch of chemistry. Synthetic rubber is dealt with in a chapter on rubber. The older part of the book has been brought up-to-date. We find, for instance, information about the preparation of mustard gas, which was only disclosed after the war.

Chemical Technology and Analyses of Oils, Fats and Waxes. By Dr. J. Lewkowitsch, M.A., F.I.C., Revised by George H. Warburton. Sixth Edition. Vol. II. 9 by 5½ in. Pp. 959. 42s. Macmillan & Co., Ltd., St. Martin's Street, London, W.C.

The last edition of this volume of the late Dr. Lewkowitsch's well-known work on fats was published in 1914. Mr. Warburton, who was intimately associated with Dr. Lewkowitsch, has carried out the revision of the work. The present volume being increased in size over the previous and bears signs of a careful revision on the lines of the original work. This volume is a particularly interesting one, as it deals with the commercial preparation of oils and fats, and with the technology of the natural oils, fats and waxes and methods of refining and testing. The oils are classified into drying, semi-drying, and non-drying oils, animal oils, vegetable fats, animal fats, and waxes. The work thus covers some hundreds of oils, many being of the greatest commercial importance. If one turns up such pharmaceutical oils as almond oil or cod-liver oil, the most complete information is available, recent investigations being referred to and the original sources given. The section on cod-liver oil extends to over twenty pages, and those who remember Dr. Lewkowitsch's evidence for the defence in a cod-liver oil prosecution will not be surprised to find that the subject is exceptionally well handled. The same remarks may be extended to other monographs which we have examined on commercial and pharmaceutical products, such as linseed oil, spermaceti and beeswax. There are many tables of analytical results which supply the data for judging of the genuineness of an oil or fat. The methods of detecting adulteration are summarised, the details being contained in volume I. The book maintains the character given to it by the author, and is the authoritative work on the subject with which it deals. It would have been better to have had an index in each volume, as until the third volume is published it is not easy to turn to a subject quickly.

THE CLEANING OF PICTURES.—Lecturing in London, on November 15, on the preservation and restoration of pictures, Professor A. P. Lawrie, while not prepared to give a final opinion as to the safest methods of cleaning, suggested that where alcohol was used castor oil should be laid on the surface with a soft brush, and then a mixture of castor oil and alcohol dabbed on with a soft brush, and removed by diluting with turpentine and sopping up with a large dry brush. Where alcohol was not a sufficiently powerful solvent, copaiba balsam emulsified with ammonia might be used, a preparation of copaiba balsam thinned with a little turpentine being laid on first.

College Notes

LONDON COLLEGE STUDENTS' DANCE

THE staff and students of the London College of Pharmacy held the first of a series of dances and socials for this season recently. The musical part of the evening was provided by some of the students. During the interval Mr. Gulliver thanked the members of the Entertainments Committee, who, under the direction of Mr. Mazloun, had arranged such a pleasant evening.

NORTHERN COLLEGE OF PHARMACY

The idea of a reunion of past students and masters of the Northern College of Pharmacy had long been in the minds of many past students, but the difficulty of a suitable venue and the desirability of a real "worth-while" programme seemed to be the trouble. When, however, the Chemists' Exhibition in Manchester was decided upon, matters were made comparatively easy. A small committee was formed, names and addresses were collected, and after Messrs. Clayton, Lawson and Brindle (past masters) had expressed their willingness to attend, the work of circularising began. The response was very good, about 80 replies coming to hand. Thanks are due to the Exhibition authorities for giving the necessary facilities and providing tea—this was much appreciated. "The health of the Past Masters" was carried with acclamation. There was great pleasure in the meeting of friends of yester-year, and great fun was made of the alteration of contour in the figures of men, wrought by the hand of Time. The organising secretary for this affair was Mr. John Rennie (W. B. Cartwright, Ltd.), who refused any thanks on the ground that he was thankful to everyone for having done his bit to make the affair a success by turning up.

WELSH COLLEGE OF PHARMACY PRIZE DISTRIBUTION

THE distribution of prizes in connection with the Welsh College of Pharmacy was made on November 8 by the Lord Mayor of Cardiff as follows: Silver medal, Mr. John Russell, Barry; bronze medal, Mr. Jesse Hatton, Penarth; chemistry, Mr. John Russell; dispensing, Miss W. Gwynne Wigley, St. Dogmaels; general pharmacy, Mr. H. T. John, Haverfordwest; aggregate prize, Miss Amy B. Crosby, Llanelly; and part time, Miss Irene Tavey and Mr. H. J. Perkins, Cardiff. Principal Charles Coles reported that last session twenty-two students had qualified as pharmacists, six had qualified in Part I., and eight had passed the Apothecaries' Hall examination. Since the establishment of the college three years ago, seventy-seven students had qualified as chemists and druggists and twenty-five had qualified as dispensers. An address was then given by Mr. H. M. Lloyd, J.P. (Merthyr), on *Ideals in Pharmaceutical Education*, in which the speaker mentioned some of the important changes about to be made in the pharmaceutical curriculum. Chemistry, botany and physics were inadequate for present-day needs. Various countries had introduced bacteriology, but as yet nothing had been done here. Much of the work done now by the medical man himself could profitably and usefully be done by the pharmacist, when qualified and scientifically equipped to perform food analysis, urine testing, sputum analysis, etc. A greater field is opening on the manufacturing side. The speaker urged the students to look ten years ahead and to have an ideal. He emphasised the value of research laboratories, so that pharmacists might be able to collaborate with the medical profession, manufacturers and the like. Mr. Lloyd further said that students who entered pharmacy with the sole idea of making money would be doomed to disappointment. Students who put their whole heart into their profession and were not content with just qualifying would gain the greatest possible happiness from their labours. At the conclusion of the meeting all present were entertained to tea in the assembly hall by the hospitality of the Lord Mayor.

"CHEMOR" is suggested by a Canadian contemporary as a suitable name for consulting and analytical chemist

Pharmaceutical Society Of Great Britain

Kendal and Lancaster Branch

CHEMISTS in the area between Garslang and Ambleside met, on November 16, at the Fleece Hotel, Kendal, to form a branch of the Pharmaceutical Society. Mr. H. M. Lloyd, Southport, who gave an address, said that the test case had been a source of anxiety to the Council, as to how to allocate the work. The time had now come when it was unnecessary to organise employers. The great desideratum was to link up all members of the Society, whether employers or employed, including qualified assistants and student associates, who paid 2s. 6d. per year. The membership of the Society had reached 11,000 for the first time. In the scattered areas it was difficult to get chemists together, and much easier in the bigger localities. Education was to be improved. Pharmaceutical chemistry was to be transferred to Part II. of the Qualifying examination. It was proposed that lectures should be given to branches by representatives of the Society, and papers read. The Codex was to be revised, and there would be an opportunity for pharmacists to take part in this work, in which medical men would be invited to join. A delegate would be sent from each branch to the British Pharmaceutical Conference. The Major examination would be brought up to date. Radiography and bacteriology would be included. Not only must branches of the Society be formed, but it was important they should be kept alive. Mr. Townley, Keswick, secretary of the Cumberland Branch, asked a few questions regarding new branches, pointing out the difficulty of overlapping. So few took an active interest in the work, consequently everything devolved on a small number. Mr. Lloyd briefly replied, and the remainder of the business was transacted over the tea-table. It was decided that a branch be formed, to be called the Lancaster, Kendal and District Branch of the Pharmaceutical Society. The following officers were elected: *President*, Mr. A. H. Robertson, Lancaster; *Vice-President*, Mr. G. M. Birkett, M.A., Kendal; *Secretary and Treasurer*, Mr. J. B. Shattock, Lancaster. *Committee*, Mr. A. Bate, Lancaster; Mr. Giddings, Morecambe; Mr. Vogt and Mr. Robinson, Kendal; Mr. Bowker, Windermere; Mr. A. W. Hankinson, Grange; Mr. R. Smalley, Carnforth.

Festivities

Leicester Assistants' Whist-drive

THE second whist drive and dance organised by the Pharmaceutical Assistants' Association took place on November 15. The prizes, which were distributed by Mrs. Ward, were won by the following:—*Ladies*: (1), Miss Sturgess; (2), Miss Jackson; (3), Mrs. Westhead; consolation, Miss Harrington. *Gentlemen*: (1) Mr. Moore; (2), Mr. Cuthbert; (3), Mr. H. Whit; consolation, Mr. Jevons. The two surprise prizes were won by Mr. Wilson and Miss Whit. Dancing commenced at 10.45 and was kept up until midnight.

Script Sports Club Dinner

THE annual dinner of the Script Sports Club took place on November 16 at Anderton's Hotel, at which teams representing the London Associations were present, and old memories of victories and defeats were recapitulated. After the dinner Mr. Skinner, the chairman, called upon the secretary, Mr. J. Hearle, to give the results of the various competitions. The trophies were for rifle shooting, the Association competition being for the Maw Challenge Shield. It was found that the South Western had once again succeeded in wresting the Shield from the Western Association, who were, however, the runners-up. Mr. Barratt accepted the Shield on behalf of his team, and tokens were presented to each member of the winning team by S. Maw, Son & Sons, Ltd. The singles championship for the holdership of the Keall Cup was won also by a South Western man, Mr. Monaghan, with an average

of 95.6. The Bowls tournament for the Glaxo Challenge Cup resulted in the Eastern team defeating the Northern—the holders. Replicas which had been provided by the proprietors of Glaxo (miniatures of the Challenge Cup in silver) were awarded to the members of the winning team. The chairman's trophy for the singles championship was won by Mr. F. Perrett, of the Northern Club, the runner-up being Mr. W. Wilkinson, of the Western Club, who thereby became the possessor of the Duncan Flockhart runner-up prize. The Hatfield Wood Cup, which is confined to the singles championship of the Eastern Club, was won by Mr. Wood, who received it from the hands of Mr. A. R. Keith. A pleasant surprise was then sprung upon the secretary by the chairman, who announced that the players had clubbed together to make a small token of their regard for Mr. Hearle in a presentation. After this was made the toast was given with musical honours and Mr. Hearle replied in suitable terms. It was announced that the Billiard Cups were not to be awarded this year owing to the breakdown of arrangements, but The Shirliff Cup, for the runner-up, was on view, and was greatly admired. Two or three toasts were given, and the musical arrangements were admirably carried out and contributed to by Messrs. Johnson, Keith, Barratt, and Durston. The evening closed with Auld Lang Syne.

Reigate Chemists' Supper

THE Reigate and Redhill Pharmacists' Association held their annual meeting at the White Hart Hotel, Reigate, on November 22. After the meeting a supper was held in celebration of the inauguration of the local branch of the Pharmaceutical Society. Mr. H. Hocken, the President of the local association of pharmacists, occupied the chair, and the President of the Pharmaceutical Society (Mr. E. T. Neathercoat) responded to the toast of the "Pharmaceutical Society." During the evening an excellent musical programme was provided. The following contributed to this part of the entertainment, which was arranged by Mr. Oram:—Messrs. Humphery, Mollison, Oram, Powell, Capt. Thomson, and Mr. Wenman, with Mr. Holman as accompanist.

West Kent Pharmacists' Dinner

THE annual dinner of the West Kent Pharmacists' Association was held on November 22, at Beckenham Hotel, Mr. H. St. D. Francis (President) in the chair. The record number, for this Association, of 75 sat down to dinner, among those present being: Mr. A. E. Hobbs (Tunbridge Wells), Mr. J. E. French (Sittingbourne), Councillor Allan Bone (Chislehurst), Mr. Layman (Wright, Layman and Umney, Ltd.), and representatives of various wholesale houses. After the loyal toast, Mr. French proposed "The West Kent Pharmacists' Association," stating that the Association is in a most flourishing condition, thanks to the work done by the officers. Mr. H. Schofield replied. "The Chairman" was proposed by Mr. Wallace Pring (Secretary), to which Mr. Francis replied. Councillor Bone, in humorous vein, proposed the toast of the "Ladies and Visitors," and Mr. Hobbs responded. The toast of "The Artistes" was proposed by Mr. Davenport, and Mr. Agnew replied. A capital musical programme added to the evening's enjoyment.

At a meeting of the Holborn (London) Borough Council on November 23 a motion was carried making chicken-pox a notifiable disease. Councillor J. W. Roberts, chemist and druggist, opposing, said there was no need for such panicky legislation.

BEATING THE DRUM.—Prominence has been given in the lay Press to an Edmonton inquest, reported on p. 636 of the *C. & D.*, November 18, in the course of which inquiry it appeared that a firm of vendors of surgical appliances had purchased certain pills for 3d. and sold them (first affixing a 4s. medicine stamp) for £1 4s. One of the captions is "How chemists get rich," and the secretary of the British Medical Association has taken the opportunity of remarking that the scathing report of the Select Committee in 1914 (whose recommendations the Coalition had failed to turn into law) was a document which made startling reading.

Associations' Winter Session

Birmingham.—The inaugural meeting of the Birmingham Pharmaceutical Association was held on November 15 at the Grand Hotel, about 80 members and friends attending the reception by the President and Mrs. Marshall and the dinner which followed. The President (Mr. H. H. Marshall) proposed the health of the visitors, mentioning in particular Dr. J. Coole Kneale and Mr. W. Partridge, who were present as guests of the Association, and Mr. Appleby Matthews. This was responded to by Dr. Coole Kneale. The President then delivered his address, dealing principally with present-day conditions and organisation in pharmacy generally, and specially as they exist in Birmingham. He described the activities of the Retail Pharmacists' Union, of the Executive Committee of which he is a member, and of the local Branch of which he is chairman. In future, he explained, the work of the Association will be principally confined to the social side of the programme, matters educational and scientific being dealt with by the Branch of the Pharmaceutical Society, and purely business interests being in the hands of the Birmingham Branch of the R.P.U. His impression of the Executive of the R.P.U. is that it is composed of men who have had long experience in pharmacy, who have given up a very considerable proportion of their time for the betterment of pharmacy, to protect its members from injustice and to deal with matters which it would be impossible to negotiate without such an Executive. The work at the meetings in London is very strenuous. Details of some of the work undertaken were given—the formation of a Chemists' Mutual Insurance Company, which undertakes all classes of insurance except "life," with a saving of about 20 per cent; the institution of services for block-designing, showcards and window-dressing, and the production of a National Price List. He appealed to all present to exert their influence in securing the success of the R.P.U. and of its schemes on behalf of pharmacists and pharmacy. Mr. C. Thompson proposed a vote of thanks to Mr. Marshall for his address, and welcomed him on behalf of the Association as their President for the coming session. This was seconded by Mr. A. B. Jenson, and carried with applause. On the proposal of the President, seconded by Mr. H. Rigg, a vote of thanks was also given to Mr. J. W. Atkinson, the outgoing President, and to Mrs. Atkinson, for having so efficiently carried out the duties during the past two years. An excellent musical entertainment followed and completed the evening.

Edinburgh.—The Edinburgh Chemists' Assistants' and Apprentices' Association held the opening meeting of the session on November 15, Mr. Henry Stout, Ph.C., in the chair. The Secretary (Mr. James W. Teesdale) submitted the report on the summer session. The prizes for the session were presented by Mr. Rutherford Hill to the following successful candidates: The Dr. John Cumming Pharmacy Prize (books value £1 1s.), Miss Maisie F. W. Mill (Sutherland and Gairn). Dick Botanical Prize: (1) (books value £1 1s.), Miss Margaret M. Smith (Mr. Peter Boa); (2), President's Prize (books value 7s. 6d.), Miss Barbara Geddes (Mr. J. S. Heddle). A vote of thanks was accorded to the donors. The President then delivered an address on *The Future of Pharmacy*. Mr. Smith said the educational aspect bulked largely in what he had to say, but the business and practical side is also of importance. He pointed out that, in the time of King James I., no one could compound medicines unless he had served seven years with a apothecary and had been examined and approved by the Master and Warden. Two years, he said, is much too short a time in which to acquire that habit of carefulness and experience which are the basis of public protection implied in a certificate of qualification. Up till the seventeenth century pharmacy and medicine were one. Since then pharmacy has evolved as a distinct craft, and that is as it should be. But the cleavage has been too acute, and the time has come for closer co-operation in which the pharmacist may assist the medical practitioner in many ways without encroaching on their professional duties or privileges. This would be

to the mutual benefit of all concerned, and the tendency in pharmacy to-day is in that direction. Speaking of the National Health Insurance Act, he said there are indications of further developments in public pharmacy on analogous lines. A State Medical and Pharmaceutical Service might be in the programme of a Labour Government, if that comes. For the moment we have probably had enough in the way of State control of pharmacy. The Dangerous Drugs Act is more than enough. Touching on the test case, Mr. Smith added that a Pharmacists' Union has been attempted with doubtful results. The Immature Spirits Act and the new qualifying examination may so alter the future of pharmacy as to call for some notice. The rebate or drawback on immature spirits used by pharmacists for purely medicinal purposes is an immense boon. Hairdressers, perfumers and others are clamouring for a similar privilege. The rebate entails an enormous amount of work on the Customs and Excise authorities, and there is danger that some day all spirituous preparations may be manufactured in bond. With regard to the present standard of the examination, he thought it is not high enough. The enormous strides medicine has made in the use of animal products demand an intimate knowledge of botany, zoology, animal physiology and bio-chemistry on the part of the pharmacist. Many members of the craft to-day hold that the knowledge demanded of a candidate for registration as a chemist and druggist is out of all proportion to the benefits he may hope to reap. The lists of those coming forward for examination, however, rather indicates otherwise. In alluding to the new regulations for registration as a student, Mr. Smith said we erred in allowing a lower standard for a beginning. The major qualification is capable of useful development as a practical qualification for the limited number required possessing a higher scientific training. Pharmacy in the future will demand two classes—a professional class and a professional-cum-trade class as at present, but more clearly differentiated. For those in the latter class we may have to follow American ideas. We cannot legally introduce a commercial training into the qualifying examination, but is there any reason why the Pharmaceutical Society should not institute an examination and grant certificates on commercial lines? Many students would be only too glad to qualify on the commercial as well as the professional side. The reorganisation of the major examination would require to be on drastic lines. It may be said when you have secured this professional type of pharmacist you would have no job to offer him. It must be frankly admitted that the prospect is none too bright. The speaker, however, outlined his ideas of possible opportunities. He also referred to the position of the youths who enter the wholesale trade, and who have no desire to become retailers. He suggested that they might become certified as manufacturing pharmaceutical chemists on the basis of the qualifying examination preliminary and an examination on the same standard as the qualifying examination, omitting dispensing and replacing it by a short course in engineering. He could not, of course, be registered as a chemist and druggist or have any right to keep open shop.

Liverpool.—At a meeting of the Liverpool Chemists' Association on November 22, Dr. J. R. Logan Cave gave a lantern lecture on *Trees*, dealing especially with the oak, ash and elm, and showing in great detail their structure and growth. He demonstrated Nature's profusion in the production of fruit and variety of bloom. On passing a vote of thanks, Mr. Harold Wyatt testified to the lecturer's skill in selection and arrangement of the photographs, both in the open and under the microscope. The lecturer had indeed shown how fine it was for a man to have a hobby and how friendships could be cultivated by men who took interest in the hobbies of others. Messrs. Moreton Parry, David Evans, and the President, Mr. Clubb, added tributes which the large attendance cordially endorsed. In reply, the lecturer suggested several books on trees and flowers. The secretary, Mr. Hirst, bespoke a full attendance for Viscount Leverhulme's lecture on "Personality in Business" on December 6.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts

Local Reports

ENGLAND AND WALES

Derby.—At a meeting of the Borough Insurance Committee, the quarterly returns from the North Midlands Pricing Bureau were presented, and showed that the number of prescriptions made up in the borough was 37,006. The average ingredient price was 4.6d. and dispensing fee 4.9d. The Panel Committee asked that the payment for emergency drugs, etc., at a flat rate of 1s. 3d. per hundred persons on the doctors' lists should be continued, and this was agreed to, subject to its not applying to patients supplied with all drugs and appliances from the doctor. It was also resolved, at the request of the Panel Committee, that the standard bandage supplied to insured persons should be the "white" variety unless otherwise indicated.

London.—A meeting of the Pharmaceutical Committee was held on November 14, 1922, Mr. H. Skinner (chairman), who occupied the chair, welcomed Mr. D. A. Rees, a new member representing South-West London chemists. The report of the Central Checking Bureau for the month of August 1922 showed a margin of error of 0.09 per cent. The secretary was instructed to make certain inquiries regarding the checking of prescriptions. Regarding the new standard for dressings, the Committee decided to send a copy of the new B.P. Codex Supplement to each panel chemist in the county of London. The interim report of the Joint Conference between representatives of the Panel and Pharmaceutical Committees was adopted, and the Sub-Committee appointed was authorised to continue negotiations until a settlement has been reached. The secretary reported, *inter alia*: (a) That six chemists were added to the panel list; (b) particulars of dispensing for August 1922 as follows:

Value of ingredients	£5,213 11s. 7d.
Value of dispensing fees	£6,809 9s. 2d.
Number of prescriptions	364,340
Average ingredient cost	3.43d.
Average dispensing-fee cost	4.49d.

(c) Important details relating to the medical and pharmaceutical services. (d) Particulars of a complaint against a doctor, who was influencing patients to obtain medicines from a certain chemist. Messrs. Barnard, Keall and Melhuish were reappointed to serve on the Pharmaceutical Service Sub-Committee, and Messrs. Barnard, Keall and Wing to the Hours of Service Sub-Committee.

Salford.—The Minister of Health has had under consideration the Report of the Inquiry Committee constituted under Part VII. of the Medical Benefit Regulations, 1920, to deal with the case of Mr. James Shand (trading as Shand & Orr), of 301 Regent Road, Salford, a person on the list of persons supplying drugs or appliances in the Insurance Committee's area. (*C. & D.*, September 23, p. 441.) In view of the findings contained in the Report, the Minister is satisfied that the continuance of Mr. Shand on the list of persons supplying drugs or appliances would be prejudicial to the efficiency of the pharmaceutical service, and he has accordingly decided to remove Mr. Shand's name from the list.

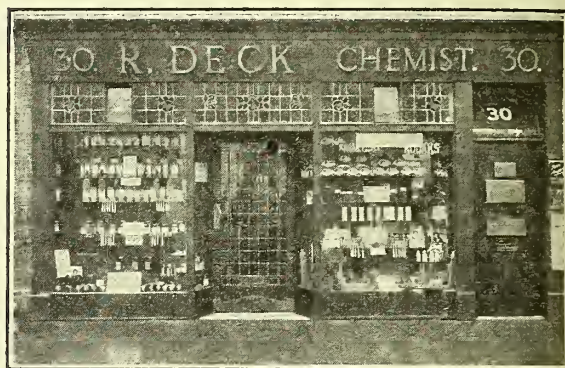
Sheffield.—A meeting of the Pharmaceutical Committee was held on November 15. Mr. C. H. Hallatt in the chair. Mr. Edward Geo. Robinson was co-opted a member of the Committee, in place of Mr. Airey, resigned. A letter was read from a panel chemist, complaining that doctors were added to the panel without notification being made to the chemists. It was decided to ask the Insurance Committee to adhere to the Medical Benefit Regulations in this direction. A resolution from St. Helens, suggesting that the B.P. 1914, B.P.C. 1911, and Supplement to the B.P.C. 1922 should be taken as standards for Insurance dispensing, was received. Messrs. J. T. Appleton, C. H. Hallatt, and H. G. Williams were appointed as members of the Pharmaceutical Service Sub-Committee. The checking reports for April, May, June and July were accepted.

Chemists' Windows

Photographs of windows sent to the Editor for reproduction should be accompanied by a note on how the displays were arranged

A Fine Shop Front

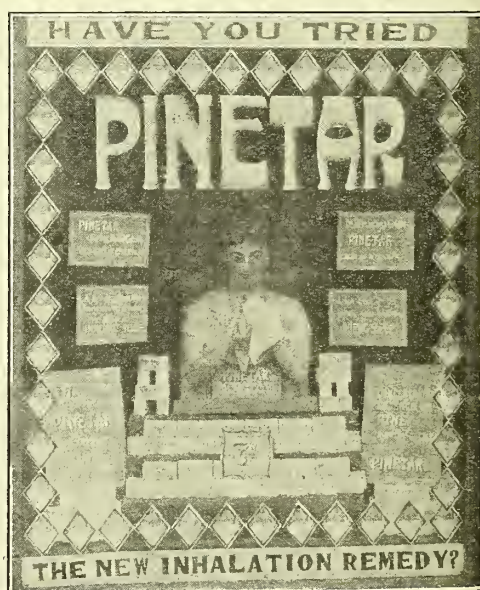
MR. REGINALD DECK, chemist and druggist, 30 Regent Street, Cambridge, has recently completed a new shop-front, which is illustrated herewith. The front is con-



structed by Haywards, Ltd., Union Street, Borough, London, S.E., entirely of malleable steel, painted dead black, with solid bronze mountings and letters. The door is fitted with Haywards' patent "Copperlite." The effect of the whole is excellent, giving the necessary dignity and effect required in an University town.

A Winter Display

Stuck on the window are the strips "Have you tried" and "The new Inhalation Remedy?" The letters "Pinetar" were cut out and shaded before being placed on the window. The diamond-shaped illustrations were cut out from handbill used as an advertisement, and are the illustration of a baby asleep in bed. These also were stuck on the window, and made a very effective border.



Empty cartons of the preparations were placed underneath and at the sides. Tickets on each side of the figure were suspended from the top, and were grey in colour, with white letters and black shading.

This window is one used by Mr. H. A. Martin, Leicester.

Safeguarding Industries Act

Oxalic Acid

MR. CYRIL ATKINSON, K.C., the Referee under Part I. of the Safeguarding of Industries Act, resumed the consideration of the hearing of the complaint in regard to oxalic acid on Thursday, November 16, the first hearing of which was fully reported in our last issue (pp. 709-712).

WHAT IS SYNTHESIS?

MR. PARRY was re-examined by Mr. Swan on behalf of the complainants. In an endeavour to get quite clearly Mr. Parry's views on the question of synthesis, he asked several specific questions. Taking the first step, i.e., the formation of the formate from the combination of carbon monoxide and caustic soda, he asked if it were possible, not knowing the constitution of the formate, to predict its constitution beforehand. MR. PARRY said it would not be possible because they would not know whether there had been a junction of the molecules or merely a combination. If the Board of Trade was correct in saying that one of the characteristics of synthesis was an increase in the carbon atoms, then this characteristic did not exist in the case of oxalic acid because they finished up, as they started, with one carbon atom. Again, taking the second stage of the process, it was equally impossible to predict what the constitution would be beforehand. It was, of course, possible to say that one of three well-known reactions would produce oxalic acid, but at no step in the process was there an experimental method of determining exactly what was taking place. On the other hand, having once got oxalic acid of known constitution, one could reconstruct it by means of three possible reactions, but at no time during the reaction could it definitely be stated, and they could only argue back. It was impossible from these reactions, without a prior knowledge of the constitution, to infer what the ultimate constitution would be.

THE REFEREE: Suppose you have got a body, the result of say a dozen different processes or steps, and suppose that ten of these were genuine building up steps where you can foresee everything, and the other two were not, are you going to say that your ultimate product is not a synthetic product?

MR. PARRY said in that case he should say it was a synthetic product.

THE REFEREE: Then the mere fact that a small proportion of the steps are not genuine building-up steps, or orderly steps, would not prevent the result being synthetic?

MR. PARRY said it would not, if in the main the process was synthetic, and that was the answer he had given in a previous case. But he could not agree that these conditions held good in this case because one of the steps in this case was a decomposition product at a high temperature. He agreed that caustic soda could be built up from its elements, but it was only done in a tube in the laboratory and not on a commercial scale. If they were going into the region of inorganic salts and suggest that a reaction between caustic soda and carbon monoxide was a synthesis, then they would have to say that all inorganic salts were synthetic. The word synthetic had never, to his knowledge, been applied to inorganic products, and although strictly speaking a subject might not cease to be regarded as synthetic because it could be made up from its elements, although it never was in practice, yet to go as far as that would be a ridiculous conclusion.

THE REFEREE said he did not follow the reasoning why the first step in the manufacture of oxalic acid was not synthetic.

MR. PARRY replied that his chief reason was that if they were going to say that a combination between caustic soda, which was an ordinary inorganic heavy chemical, with carbon monoxide, which was another inorganic heavy chemical, was a synthetic process, then they would be driven to the absurdity of saying that every inorganic heavy salt was a synthetic chemical. He would like to put it this way; that if they called that synthetic, it would be straining the meaning of the word "synthetic"

to the breaking point and they would be involved in a train of absurdities that would be intolerable to think of, because they would have to call ordinary washing soda synthetic, and the word "synthetic" had never been applied to that sort of thing. It had only been applied to inorganic bodies in one or two special instances, such as synthetic ammonia, which had been so called to distinguish it from ammonia which had been made in another way for very many years.

MR. SWAN intimated that this closed his case.

Before Sir Arthur Colefax opened his case for J. D. Pritchard & Co., Ltd., Swansea, the Referee asked if he was going to contend that oxalic acid is a fine chemical.

SIR ARTHUR COLEFAX said that his main case was that oxalic acid is demonstrably a synthetic organic chemical, and he should not worry himself very much about the fine chemical point, so strong did he feel his case on the question of synthesis. At the same time, he should argue that oxalic acid is a fine chemical if need be, and that argument formed part of his case.

THE ONLY WITNESS

DR. JAMES GORDON PARKER, F.I.C., consulting chemist, 176 Tower Bridge Road, London, was then called, and was the only witness for Pritchard's. He said he had never given evidence in any of the previous cases and had never addressed his mind to the question whether oxalic acid is a fine or a heavy chemical. At the same time, had he been asked the question, say five or six years ago, he should undoubtedly have said that it was a fine chemical, for the reason that he associated in his mind heavy chemicals with those which were made in hundreds of thousands of tons, and were more or less easy to manufacture, such as sulphuric acid, hydrochloric acid, bleaching powder, and one or two others. At the same time, he did not think that people were troubling themselves very much about what were fine and what were heavy chemicals five years ago. Having outlined the process of manufacture, already given, Dr. Parker referred to many text books and dictionaries in which the manufacture of oxalic acid was referred to as a synthesis, and quotations were read from Ullmann's Encyclopædia of Technical Chemistry; Perkin & Kipping's "Organic Chemistry"; Richter's "Organic Chemistry"; Roscoe & Schorlemmer's "Treatise on Chemistry"; Molinari's "Chemistry," and Martin's "Industrial Chemistry," and he disagreed with the evidence of Mr. Parry that because the constitution of a body was not known beforehand, there could not be a synthesis of it. Neither did he agree that because there was some destruction of some of the materials used in a building-up process, the process could not be called a synthesis; indeed, there were very few synthetic processes in which there was not some destruction of some of the molecules, and he could not follow Mr. Parry's argument in this connection. Acetylene was a typical substance synthetically prepared in which a high temperature played a part in the process and it could not be said that because a high temperature was employed in one of the stages, therefore the whole process could not be called a synthetic one. On the question of whether oxalic acid is a fine or a heavy chemical, Dr. Parker mentioned that in the tanning industry oxalic acid is kept with the reagents and he should certainly class reagents as fine chemicals.

DR. PARKER CROSS-EXAMINED

Cross-examined by Mr. Swan, Dr. Parker said he was not prepared to accept the whole of the definition of a synthetic organic chemical laid down in the camphor case, but was prepared to agree to this extent, that it is "a building-up of carbon compounds either from their constituent elements or from groups of differently constituted molecules by orderly steps." He stopped there because he did not think it was an absolute necessity in a definition of synthesis to be able to say exactly what was going to be obtained at the finish. It was put to Dr. Parker that synthetic bodies were usually of the type such as phenacetin, photographic chemicals, salicylic acid, aspirin, and so on, the synthesis of which was effected in such a way that the final product was known

for a certainty at all stages, but witness replied that he did not know sufficient of the manufacturing processes of these substances to be able to speak with authority. He agreed, however, that they were generally regarded as synthetic substances. He would not agree that the references to synthetic oxalic acid in the literature were in order to distinguish the product so made from the natural product, in other words, to distinguish between the natural product and the product artificially made from inorganic materials. His view was that the synthesis began with the very first stage in the process, viz., the inter-action of the carbon monoxide upon the caustic soda.

Asked by the Referee whether the progressive increase of carbon atoms, mentioned in the Board of Trade counter-statement as a characteristic of synthesis, meant there must be an addition of carbon atoms at every stage, Dr. Parker said it did not.

Later, the Referee suggested that he thought the Act was intended to be interpreted broadly and not too technically.

Dr. PARKER, in the course of further cross examination, said he did not think it was necessary to be able to infer, beforehand, what the constitution of the final product was to be, and, moreover, he did not think the last word had been heard in the matter of the synthesis of oxalic acid; it might be possible to carry it further and obtain other substances, but the fact that they did not know what those substances were likely to be would not make the process any the less a synthesis.

Sir ARTHUR COLEFAX: Unless you try you would not know? Dr. PARKER agreed. There was only a very brief re-examination, but in reply to the Referee, Dr. Parker said there was no distinction in the trade between oxalic acid made in the manner which had been described and natural oxalic acid.

KNEW A FINE CHEMICAL BY INSTINCT

On Friday, when another short sitting was held, Mr. Whitehead called a witness on behalf of the Board of Trade.

Dr. LOUIS ARNOLD JORDAN, F.I.C., A.R.C.Sc., said he had had considerable experience in the preparation of organic compounds; in fact, he could say he had distinctly specialised in the manufacture of synthetic organic compounds, and he had formed definitely the view that oxalic acid is a fine chemical. His reasons were because it was a clean white crystal of a considerable degree of purity. There were no brown crystals or crude technical quality, as in the case of salicylic acid. It was not made in considerable quantities or in exceedingly large batches, and its manufacture was undoubtedly an operation which required careful supervision by skilled labour and by chemists.

Mr. SWAN, interposing, said that if they were going into the question of how oxalic acid was manufactured he should object, because no questions had been asked Mr. Parry, in cross-examination, with regard to this. A clear statement on the subject had been put in by the complainants and it had not been challenged.

The REFEREE said the mere fact that questions had not been asked in cross-examination did not dispose of the matter, and if anything now done involved the point raised then Mr. Swan would have an opportunity to recall a witness.

Dr. JORDAN, in the course of further examination in chief, said he was a chemist, and knew by instinct what was a fine chemical and what was not.

The REFEREE: I wish I did. (Loud laughter.)

Dr. JORDAN said he thought what he had said was a perfectly reasonable point of view to take.

The REFEREE: I think it is. I have always thought there is a sort of feeling about it.

Dr. JORDAN, continuing, said he had no experience of the manufacture of oxalic acid by the process which had been described, but he had been interested for some time in various processes, and his view was that it is undoubtedly a synthetic organic chemical. He should never have questioned that, and he could not conceive anyone who was a chemist questioning it. Oxalic acid was

actually built up from its elements by a series of operations which were individually and collectively synthetic operations in the purest sense—viz., the absorption of carbon monoxide by caustic soda to form formate, and the subsequent formation of oxalate, with progressive increases in molecular weight, which was a condition regarded as necessary to synthesis in the sense of building up. At the same time, he did not admit that it was absolutely necessary to increase the molecular weight in order to get a true synthesis. Urea was a classical synthesis from ammonium cyanate, which involved no increase in the molecular weight. Another instance was the formation of aniline from nitro-benzene, and this involved a slight decrease in the molecular weight. An increase in the number of carbon atoms was generally regarded as evidence of synthesis, but it was not, in his opinion, absolutely necessary. There was, however, an increase in the number of carbon atoms in the case of oxalic acid. If one knew the beginning product and the end product, as was the case here, he did not understand why it should not be called a synthesis. It was, of course, fundamental for the investigator to know what he was dealing with at the beginning, and if that was denied then, of course, it would be impossible to synthesize anything, but, given that, it was not necessary to be able to infer the constitution of the final product, and there were many instances of that.

Dealing with the definition in the camphor case, Mr. Whitehead put it to the Referee that this had been worked out in the camphor case, and nothing was more difficult than to get a definition which was wholly comprehensive when it was founded on one set of facts.

The REFEREE said it would be interesting if the witness could give examples of synthetic organic chemicals which could not be built up from their elements, but which were the result of bringing together two molecules of the same constitution.

Dr. JORDAN said that formaldehyde was a substance normally prepared by oxidation of methyl alcohol, which was also normally obtained by the distillation of wood spirit. There was practically nothing in organic chemicals which could not be built up from their elements. He could give instances which indicated that the definition in the camphor case was not sufficiently wide. If they adhered to the wording "differently constituted molecules" then a large number of substances would have to be wiped out.

Sir ARTHUR COLEFAX said he did not follow the antithesis between the two parts of the definition, unless what was meant was differently constituted molecules from the resulting product.

The REFEREE said he had always understood the definition to mean that, although originally synthesis had been confined to the building up of bodies which could be built up direct from their elements, it had become rather wider, and now included the building up of certain compounds, although they could not be traced back to their elements, and that as long as they took differently constituted elements which were not synthetic in themselves, and proceeded from them to build up, the final result was a synthetic chemical. However, he did not think it mattered in this particular case.

OXALIC ACID MADE BY NEW PROCESS

Cross-examined, Dr. JORDAN said he confessed that until he heard of this case he had not worried much about whether oxalic acid was a fine or a heavy chemical. As a matter of fact, it was he who approached the Board of Trade and offered assistance when he first heard of the complaint because he had been interested in the manufacture of oxalic acid by an entirely new process, which was not at present being worked in this country, but it was hoped to in the New Year. But for this complaint, nothing would have been said about it publicly until the product was ready for the market, and his principals very much deprecated the publicity which these proceedings were bound to get. He himself was the manager of the syndicate which was responsible for the process he had mentioned. Asked as to what he meant by "large quantities" when saying that he regarded

oxalic acid as a fine chemical, Dr. Jordan said he was basing his opinion on the British output, which was about 1,000 tons. Asked as to whether he could give any instance of a synthetic organic chemical made in the same quantities as oxalic acid, Dr. Jordan hesitated, and finally suggested tartaric acid.

"I will leave it at that," commented Mr. Swan.

The REFEREE put several questions on the subject of the definition of synthesis meaning that the end product must be inferred before the work was commenced, and Dr. Jordan said that several well-known synthetic substances had been the result of work which when it was commenced was expected to give quite different results. For instance, Perkin's mauve dye was obtained when Perkin was trying to get quinine from quinoline, and he got something quite different from what he was trying for.

Dr. JORDAN, in answer to other questions, said that both formate of soda and sodium oxalate were synthetic organic chemicals. The Referee: Is the true definition of a synthetic organic chemical, in your opinion, a chemical which is the result of chemical reaction? Dr. Jordan: Yes. The Referee: No one has suggested such a wide definition as that yet. Dr. Jordan: I admit that my view of synthesis is a very wide view indeed. The Referee: Your definition of a synthetic organic chemical is a carbon compound artificially prepared? Dr. Jordan: I think that is somewhere near it.

A FINAL SPEECH

Sir ARTHUR COLEFAX, in his final speech on behalf of Pritchard's, said the difficulty in this case was that they were debating a definition which had been arrived at under different conditions. As it stood, he did not quite understand the definition in the camphor case because he could not see the antithesis between what came in the first part and what came in the second part about the differently constituted molecules. He could not recollect how the words "differently constituted molecules" got into the definition. No doubt they came there prompted by someone.

The REFEREE said they came from Sir Edward Thorpe's definition, and were put to various witnesses.

Sir ARTHUR COLEFAX said that anyhow, as the Referee had pointed out, this point did not really concern the present case, because it came within the first part of the definition. It was not a case of a differently constituted molecule, but the same molecule in a multiple coalescing to give the synthesised result. One of the outstanding examples was acetylene, and there were others. All he could say was that if the definition in the camphor case was to be construed in the manner Mr. Swan was attempting to construe it, it clearly could not stand as an accurate definition, because there were so many cases which were indisputably cases of synthesis which would not come in. It seemed to him that there were some quite clear fallacies underlying the line taken by Mr. Swan. Nobody on the side of the Board of Trade nor himself had said that every step of the synthesis there must be an addition of carbon compounds. There was a linking together of carbon to carbon, it might be continuously progressive, until they got the ultimate product, but nobody had said that that had to be at every step in the process in order to constitute a synthesis. In the case of urea, for instance, there was no transformation of the carbon atoms, but merely a change in the grouping of the atoms; the molecular weight remained the same. That was one fallacy underlying his learned friend's view of this case. Another was that it must be possible to infer, from the transformation, the constitution of the formate, and that he contended was entirely wrong. High temperature, too, did not touch the question of whether it was a synthesis or not, because, as had already been pointed out, acetylene was synthesised at high temperature in the electric arc. At the same time, so far from it being the case that in this instance it was not possible to infer anything, it showed more than most reactions. As to the point that if oxalic acid is not a fine chemical it cannot be a synthetic chemical, it might very well be that the framers of this Act were not talking about trade terms

at all, and it might be that they thought all synthetic organic chemicals were fine chemicals. It was true that some chemists took the view that all chemicals were fine chemicals except the acids, but there was another view, and that was that all synthetic organic chemicals were fine chemicals; but if they began to construe the Act in a manner which was never in the contemplation of those who framed it, then of course they got a different result, and he submitted that it was late in the day for Mr. Swan to put forward the suggestion he had made as to the true meaning of the words, "all other fine chemicals," and that it should be held that a substance cannot be a synthetic organic chemical unless it be a fine chemical. The term "synthetic organic chemical" had a meaning quite apart from the consideration of the question whether it was fine or heavy. Many chemists might have a perfectly definite view of what a synthetic organic chemical is and very different views of a fine chemical, as the Referee had heard. As regards the manufacture of oxalic acid being a synthetic process, the Referee had had book after book placed before him in which it was definitely referred to as a synthesis, and nothing to the contrary had come from the other side, and certainly none in which it was referred to as not being synthetic. He based his case on oxalic acid being a synthetic organic chemical principally, and, as regards it being a fine chemical, they had had the trade evidence. Mr. Butler was a very important witness for the other side, as he probably had more to do with oxalic acid than any of the other witnesses. His firm were agents for the German combine, and yet one of the catalogues which had been put in, as late as June 1922, contained oxalic acid in a list of fine chemicals and pharmaceutical products. He agreed that the bulk of the trade evidence went to show that it appeared in the catalogues as a heavy chemical, for what it was worth; but, on the other hand, the trade had not troubled much to consider what it was. On the other hand, he himself had put in two chemists who regarded it as a fine chemical. If the Referee was convinced by the scientific evidence, the trade evidence need in no way deter him from deciding that oxalic acid is a fine chemical. Personally, he thought the weight of the evidence was in favour of it being a fine chemical, but he did not rest his case on that, but, as he had already mentioned, placed the fact of oxalic acid being a synthetic organic chemical in the forefront of his case.

Mr. WHITEHEAD, in a short address on behalf of the Board of Trade, said the real substance of the case was whether oxalic acid is a synthetic organic chemical, and the case put forward by Mr. Swan was that if it was not a fine chemical it could not be a synthetic organic chemical. That was a pure question of law as to the construction of the words of the schedule to the Act, and he submitted that Mr. Swan's construction was quite wrong. In law they did not use general words to define particular words, which was what Mr. Swan was asking the Referee to do. As to the question of inferring the constitution, of which so much had been heard, this must not be regarded from the point of view of what a particular chemist would infer, but of the possibility of inferring, otherwise the synthesis of mauve, the second greatest historical synthesis of the world, would not be a synthesis at all. He contended that synthesis depended solely upon the possibility of inferring, and not upon the intention of the chemist when he started the work nor upon the accomplishment. Perkin did not get what he expected, but his work was a synthesis nevertheless, and, taking the meaning of the word "synthesis" in this way and looking at the words of the Act as a commercial Act of Parliament, he failed to see that any other conclusion than that oxalic acid is a synthetic organic chemical could be come to.

MONDAY'S PROCEEDINGS.

The hearing was then adjourned until Monday morning, when Mr. Swan made his final speech, the Referee remarking at the time of adjournment that, although he had not begun to make his mind up, at the moment his impression was rather that the case was against Mr. Swan on the question of synthesis.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

24 Cannon Street, E.C.4, November 23

THE result of the General Election being regarded with favour in financial and commercial circles, there is a feeling of more assurance and stability about the markets generally than has been the case for some time past. It is also felt that prices all round have now reached their lowest, and in fact the evidence of an upward trend in prices is again observable. Menthol and mint oil are the two outstanding features; a short crop and strong American demand is responsible for an aggregate advance of about 7s. 6d. per lb. in menthol, and although interested parties confidently predict much higher prices before the end of the year, consumers will do well to buy hand-to-mouth only. Cascara sagrada is very firm, and a further advance of 5s. is asked in some instances. Jalap and balsam tolu are again dearer in the United States. Ergot is inactive, and chamomiles show no prospect of receding from the present high level. Coriander seed is very firm; fenugreek seed is scarce, and canary is quiet. Grey Jamaica sarsaparilla is unobtainable; Mexican description is tending cheaper. Opium is very firm, with more demand on the spot market.

Higher	Firmer	Easier	Lower
Acetone	Agar-agar	Anise, star, oil	Almond oil
Arsenic	Bergamot oil	Lemongrass oil	Amidopyrin
Balsam tolu	Bois de rose oil	(c.i.f.)	Clove oil
(U.S.)	Carbolic acid	Tartaric acid	(Jan. deliv.)
Cascara sagrada	(crystals)	Wood oil	Cream of tartar
Cassia oil (c.i.f.)	Citronella oil		Sodium nitrate
Celery seed	(Jv.)		Soya-bean oil
Formaldehyde	Groundnut oil		Turpentine
Menthol	(crude)		
Methyl alcohol	Gum acacia		
Mint oil (Jp.)	Hexamine		
Tamarinds	Honey		
(W.I.)	Lemon oil		
Wormseed oil	Phenolphthalein		

Cablegram

NEW YORK, November 21.—Business is quiet. Cartagena ipecacuanha is dearer at \$1.60 per lb., and jalap has advanced to 30c. Balsam tolu is also higher at 75c. Mercury has advanced to \$72 per flask, and milk-sugar to 20c. Refined camphor is dearer at 93c. Mexican sarsaparilla has declined to 24c., balsam peru to \$1.75, Canada balsam to \$10 per American gallon, and short buchu to \$1.00 per lb. Antipyrine is also lower at \$2.30 per lb.

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:

		Nov. 15	Nov. 22
Paris, cheque ..	fr.	67.25—67.35	62.05—62.15
Brussels, cheque ..	fr.	72.15—72.25	67.10—67.15
Berlin ..	marks	31,000—34,000	27,500—28,000
Amsterdam, cheque ..	fl.	11.38—11.40	11.40—11.41
Italy, sight ..	lire	97—98	96½—96½
Switzerland ..	fr.	24.30—24.35	24.12—24.15
Constantinople ..	pstrs.	—	820 to 860.
Madrid, sight ..	pes.	29.30—29.35	29.29—29.32
Lisbon, sight ..	escudo	2½d.—2½d.	2½d.—2½d.
Vienna ..	kr.	320-345,000	310-330,000
Greece ..	drch.	285—305	295—305
Yokohama, T.T. ..	yen	25½	25½d.—26d.
New York, cable ..		4.46½—4.46½	4.49½—4.49½

Crude Drugs, etc.

AGAR AGAR.—There is practically no No. 1 Kobe to be had on the spot, the value being 6s. per lb., and No. 2 is 5s. 9d. To arrive new crop is quoted at 4s. 4½d. and 4s. 1½d. c.i.f. respectively.

ANTIMONY.—Quotations for English refined are unchanged, business being limited. There is a little interest in foreign refined, which is worth £24 10s. c.i.f. to arrive, and spot lots are held for fully £25. Crude is quite nominal at about £17 10s. to £18 c.i.f., the relatively high terms wanted for shipment discouraging business.

ARECA.—There appears to be nothing in first-hands, and 25s. per cwt. is asked by dealers for a few bags.

BALSAMS.—Tolu remains firm at 3s. 6d. to 3s. 7½d. on the spot, and 3s. 6d. c.i.f. is also quoted to arrive. Peru is slow of sale on the spot at 7s. 6d. to 7s. 9d. for genuine. B.P. copaiba is 1s. 8d. per lb.

CAMPHOR (CRUDE).—Chinese is unaltered at 3s. 4½d. per lb. on the spot, and at 3s. 3d. c.i.f. for November-December shipment.

CAMPHOR (REFINED).—Japanese 2½-lb. slabs remain firm with sales at 3s. 10½d. on the spot, and for January-February shipment 3s. 7½d. c.i.f. has been paid. Slightly more demand is reported for ¼-oz. tablets, which are quoted at 4s. 5d. per lb.

CASCARA SAGRADA is dearer on the spot, with 75s. per cwt. asked for two-, three- or four-year-old bark.

CASSIA FISTULA.—On the spot fair West Indian is quoted at 50s. per cwt., but some holders would probably listen to bids slightly under, for a line.

CHAMOMILES are still dear at from 440s. to 450s. per cwt. for Belgian, as to quality. French offer at 500s. per cwt.

ERGOT is inactive, with sellers quoting at from 2s. per lb. and upwards.

EUCALYPTOL.—Spot holders are offering at 3s. per lb.

HEN YOLK continues firm, prime quality Chinese offering at 110s. per cwt. on the spot. To arrive, December-January shipment has been sold at 107s. 6d. c.i.f. For dried yolk 9½d. is quoted, sprayed whole egg is 9d., sprayed yolk 10d. to 10½d., and native dried whole is 8½d. per lb. Prime Chinese hen albumen is 3s. spot, and December-January shipment has been sold at 2s. 11d. per lb., c.i.f.

HONEY.—Further sales have been made at about the prices last quoted. Cuban is the first of the new crops to come along, and the Continent has been buying all they could get direct. Reports of 32s. to 33s. per cwt. c.i.f. have been current, but these lack confirmation. Jamaican does not arrive until March or April, and in Hayti and San Domingo a 13 months' drought, it is stated, has adversely affected the prospects of good crops. At the moment there is a scarcity of useful descriptions, owing to the fact that the stocks have been picked over so often that the residue is mostly rough lots. In further reference to Quebec honey (*C. & D.*, September 16, p. 417), there is little prospect of receiving supplies from this source unless prices are advanced considerably, as the Quebec Government intimate that honey at current market prices could not be laid down in London to sell at a profit.

LEPTANDRA ROOT is scarce on the spot at 1s. 10d. per lb.

MENTHOL.—Based on short crops and American buying, this market has shown a strong advance, with spot sales at from 35s. up to 42s. 6d. per lb. for Kobayashi-Suzuki. The sales to arrive, include afloat at 32s. 6d. to 34s. 6d. c.i.f., November-December at 40s. to 41s. c.i.f., and January-March shipment at 40s. to 42s. c.i.f.

MERCURY is quiet, and if anything rather dearer, with the run of business either on home or foreign account restricted. Spot value is £12 per bottle upwards. Our imports for October were 4,894 bottles, against only 136 bottles same month last year, the aggregate for ten months representing 14,299 bottles, compared with 20,853 bottles for same period in 1921.

OPIMUM.—The future of the opium and other produce business in Turkey depends on the outcome of the Lausanne

Conference. Meanwhile business is practically suspended, and the future position of produce houses at Constantinople and in Anatolia is obscure. With little opium coming forward from the interior the Constantinople opium market remains very firm, as stocks are becoming small. The London spot price of good druggists' remains at 15s. per lb., and this price has been paid.

CONSTANTINOPLE, November 15.—During the first fortnight of November the following arrivals have taken place: 37 cases of druggists', 59 "softs," 20 Malatia. The stock was: druggists', 51 cases; "softs," 117 cases; Malatia, 8 cases. No purchases were made for Japan, but 168 cases of druggists' have been sold at 1,250 to 1,350 piastres per cask; 6 cases of "soft" at 1,430 to 1,600 piastres, and 8 cases Malatia at 1,500 piastres. Despite the relatively large arrivals, prices continue to be very firm. The regular sales induce merchants to think that very soon not a case will remain on the market, and they maintain their price in consequence. In our last report of October 31, we mentioned that 45 cases had been bought for Japan. We would like to rectify this: it should have been "35 to 40 cases shipped to London for an unknown destination."

RUBBER.—Although the demand has fallen off, the tone is quite steady. America has not been buying on this market during the past few days, chiefly on account of the adverse exchange. Fair shipments have recently been made to America direct from the East; this is likely to prevent any abnormal addition to the London stocks during the next few weeks. Deliveries were good last week, viz., 1,209 tons, and the stocks have been reduced by 391 tons. "Off-grades" continue to command high prices, and are merely a fraction below standard. Quotations (Wednesday, 5 p.m.):—Standard No. 1 crepe and ribbed smoked sheet, spot 1s. 0½d., December 1s. 0½d., January-March 1s. 0¾d., April-June 1s. 1¾d., July-September 1s. 1¾d. per lb. Hard fine Para quiet and slightly easier at 1s. 1d., soft fine 11½d., Caucho ball 11½d.

SARSAPARILLA meets with a fair inquiry, but no grey Jamaica is obtainable, while Native is also scarce, with sales at 2s. 2d. per lb. for red Jamaica. Lima-Jamaica is 2s. 9d., Mexican 2s. 6d., and Honduras roll 2s. 8d. per lb.

SHELLAC.—There is not much change in the market position, but prices on balance were harder again on the continuous drain from the warehouse stocks. The trade demand has been generally good, as usually happens when the stocks are getting dangerously low and the incomings limited. The spot price of usual standard TN orange quality closes at 345s.; for delivery the sales include December at 325s. to 320s., and March at 295s. to 290s. per cwt.

SOY.—A fair quantity has lately arrived from China, and for small lots of good brands duty paid about 3s. 8d. per gallon is asked.

STARCH PRODUCTS.—Japanese farina is quiet on spot at 14s. 6d. per cwt. Dutch is easier on the spot at 15s. 6d., and for December shipment 13s. 3d. c.i.f. is quoted. English rice starch crystals is steady at 40s., and Continental is 34s. Maize starch powder is 14s. 1½d. on spot. Dutch dextrin on the spot is 26s. 9d. for superior and 23s. for No. 2. American maize is 17s. 6d.

TAMARINDS.—For duty-paid West Indian 40s. per cwt. is wanted by one holder.

TONKA BEANS.—For a limited quantity of good frosted Angostura, about the only spot holder asks 8s. 6d. per lb.

Seeds, Spices, etc.

CELERY SEED is rather higher, French offering at from 85s. to 90s. per cwt., c.i.f.

CLOVES.—As the new Zanzibar crop will be available next month, spot prices are nominal, and a reduction of about 6d. per lb. should take place shortly. To arrive, the sales include October-December at 6½d., c.i.f., and buyers of January-March at 6¼d., c.i.f.

COCONUT (DESICCATED) continues quiet, the value of fine being 35s. 6d. and medium 36s. in spot. To arrive, November-December shipment and December-January is quoted at 36s. c.i.f.

GINGER.—Jamaica keeps firm, but the high prices asked prevent business. Small is quoted at 150s. and bold at

180s. Fair washed rough Cochin is 57s. 6d., and wormy 45s. Fine bold rough Calicut is 65s. and ordinary 55s.

PEPPER is quiet, but steady, fair black Singapore selling at 4d. per lb., and for November-January and December-February shipment 3½d. per lb. c.i.f. is quoted. Fair Tellicherry is 4½d. on the spot, Aleppy 4d., and Lampoung 4½d. per lb. Tellicherry for January-March is 37s. 6d. c.i.f., and Aleppy 36s. 6d. c.i.f. for January-March shipment. White Muntok is unchanged, with sellers at 6½d. per lb. on the spot. December-February and January-March is quoted at 6½d. c.i.f. d.w. White Singapore is 5¾d. on the spot, and 5½d. c.i.f., d.w., for November January shipment.

PIMENTO is quiet at 2½d. per lb. on the spot, and at 17s. c.i.f. to arrive. The week's deliveries were 116 bags, and the landings nil, leaving a stock of 8,026 bags, against 24,501 bags in 1921, and 38,734 bags in 1920.

SEEDS.—The following are current spot quotations, except where otherwise indicated:—Spanish ANISE is unaltered at 78s. per cwt., and Russian is 71s. CANARY SEED is quiet at 85s. per quarter for Mazagan on the spot. Larache is 77s. 6d. Common Tangier is 90s., and good bold 97s. 6d. Spanish is 105s. Dutch CARAWAY SEED is unchanged at 97s. 6d., and Morocco is 77s. 6d. to 82s. 6d. CORIANDER SEED is very firm. No sound is available, and wormy is from 40s. to 50s. per cwt. as to quality. Maltese CUMIN SEED is 130s. per cwt., and Morocco 125s. DILL SEED is 22s. 6d. to 24s., and FENNEL SEED is 57s. Sound FENUGREEK SEED is very scarce at 31s. 6d. per cwt. Manchurian HEMP SEED is unchanged at 14s. 6d. Morocco LINSEED is £23 per ton on the spot, and English MUSTARD SEED is unaltered at from 30s. to 35s. per cwt.

Essential Oils

MORE demand has been experienced this week for essential oils. The chief interest is centred in Japanese mint oil, which is again dearer. American peppermint has been selling, and Dutch B.P. blended peppermint oil is hardening in value. Sicilian oils are erratic in their price movements, but it is expected that prices for new crop will settle down at a higher level than has been general recently. Star anise and lemongrass are easier, to come forward. Essential almond is cheaper, and clove oil will shortly be available at lower rates.

ALMOND.—Genuine natural oil, s.a.p., is cheaper on the spot at 16s. per lb. The consignment mentioned in last week's *C. & D.* as having been held up pending a decision as to its dutiable nature (p. 703) has been released free of tax.

ANISE (STAR).—"Red Ship" on the spot is quiet and steady at 2s. 3d. per lb., for small lots. The price to come forward is easier at 1s. 11½d. to 2s. c.i.f. November-December sellers.

BAY.—West Indian distilled is offered at 10s. to 10s. 6d. per lb., for 40 to 45 per cent. phenols.

BERGAMOT.—Prices for new crop oil exhibit a fairly wide range at from 14s. 3d. to 15s. 6d. c.i.f. and upwards for 37 to 39 l.a. Spot prices are now beginning to be influenced by the higher forward quotations; holders are quoting 14s. 3d. to 14s. 9d. per lb., although 14s. may still be accepted in some quarters.

BOIS DE ROSE (FEMELLE).—Fair shipments are reported from French Guiana direct to America. On the spot, prices are firmer at from 10s. to 11s. Cheaper offers have been readily accepted recently.

CARAWAY.—Dutch double-rectified is steady at 17s. 6d. to 18s. 6d. per lb., on the spot. Buyers have been holding off, but there appears to be little prospect of a break in prices. One maker has advanced the price of his stock of crude in London agents' hands to 20s.

CASSIA.—There is not much of 80 to 85 c.a. offering, and spot is very firm at 7s. 6d. per lb. For shipment the higher price of 6s. 4½d. c.i.f. is quoted.

CEDARWOOD.—American is steady at 1s. 5d. to 1s. 6d. per lb., according to packing.

CINNAMON.—Ceylon leaf is quiet and unchanged at 4d. per oz. on the spot, and 3½d., c.i.f., to arrive.

CITRONELLA.—Ceylon on the spot is unchanged at 2s. 3d. per lb.; for a line 2s. 2½d. would be accepted.

Java oil is firmer to come forward, but spot holders still quote 2s. 11d. to 2s. 11½d., according to quality.

CLOVE.—The first arrivals of cheap cloves for English distillers are expected in the second week of December, and for January delivery orders would be taken at 6s. 3d. per lb. Large lines might be done a shade under. Spot is nominal at 10s. per lb.

EUCALYPTUS.—On the spot, 70 to 75 per cent. cineol has been selling at 1s. 6d. per lb., at which sales may be still made in some directions. Up to 1s. 7d., however, is asked. *E. Citriodora* is obtainable at 7s. 6d. to 8s. 6d. per lb., according to quantity. *E. Amygdalina* is quoted at 1s. per lb.

JUNIPER BERRY.—Spot holders quote at from 4s. 9d. to 5s. 6d. per lb. For juniper wood oil 2s. 4½d. is now asked.

LAVENDER.—French oil on the spot is quiet, and offers are on the easy side. For 36 per cent. ester oil 11s. 6d. per lb. is quoted, and for 38 to 40 per cent., 13s. to 14s., according to seller.

LEMON.—The latest quotations for new crop are generally higher than recent spot figures. According to brand, 2s. 9d. to 3s. 1d. c.i.f. is quoted. Prompt shipment can be done at from 2s. 7d. to 2s. 8d. c.i.f. On the spot quotations are hardening in sympathy, from 2s. 9d. to 3s. per lb. being asked. Some importers have been left with fairly large stocks, and would probably listen to bids around the old figures.

LEMONGRASS.—Cochin is dull and fairly plentiful on the spot at 2½d. per oz. For shipment the c.i.f. quotation is easier at 2½d.

MINT.—Japanese dementholised Kobayashi-Suzuki has advanced sharply, and 9s. 3d. per lb. is reported paid. To come forward, 8s. 9d. c.i.f. has also been done for November-December shipment.

ORANGE.—Sicilian sweet is unchanged on the spot at from 8s. to 9s. 6d. per lb., according to holders. The c.i.f. price is from 8s. to 8s. 6d. for new crop. West Indian is quoted at 8s. 6d. to 9s. as to holder and quantity.

OTTO OF ROSE.—For Anatolian on the spot 24s. to 25s. per oz. is asked. Bulgarian is quiet, and 25s. is given as the nominal value. French has been selling at 18s. on the spot.

PALMAROSA.—For October-November shipment now afloat 16s. per lb. c.i.f. is quoted. November-December is 15s. A lot expected shortly is held for a much higher figure.

PEPPERMINT.—Demand for most varieties has been fairly active recently. American natural oil is steady at 13s. per lb., on the spot. Dutch B.P. blended oil has been selling at 10s. per lb. This price has already been advanced in one quarter to 11s. 6d. Franco-Mitcham oil is quoted at 37s. 6d. For double-rectified genuine Mitcham oil 80s. is wanted.

PETITGRAIN.—Paraguayan on the spot is obtainable at 7s. 3d. to 7s. 6d. per lb., according to quantity.

PINE OILS.—*Pinus sylvestris* is obtainable at 3s. per lb. *P. pumilionis* is quoted at 7s. to 8s. per lb. Pine-needle oil (*Pinus maritima*) is offered at 5s. 6d.

ROSEMARY.—Spanish, on the spot, is steady at from 1s. 9d. to 1s. 10d. per lb., for cases. In drums 1s. 8d. is quoted.

SPRUCE.—The demand has been active recently, and first hands are at present unable to quote for either spot or c.i.f. to arrive.

VETIVERT.—About 18s. to 20s. per lb., is the general range of spot quotations for the Bourbon variety.

WORMSEED.—First-hands have advanced the spot price to 16s. 6d. per lb., and c.i.f. to 16s.

Pharmaceutical Chemicals, etc.

The firmer tone recently recorded is being well maintained in the majority of products, but in those articles in which little or no interest is shown the position is not so firm. The Continental advances continue to strengthen the spot position, and it is impossible to replace many items at the prices now being realised on the spot.

Benzoates remain firm, and hexamine it tending firmer, with a good demand. Bromides are still weak on the spot, although Continental prices are firmer. Amidopyrin is rather lower. Salicylic acid is firm in view of the rise in carbolic acid. Citric acid is weak.

ACETANILIDE on the spot is offering steadily from 1s. 5½d. to 1s. 6d. per lb., with business limited.

AMIDOPYRIN is cheaper at about 14s. per lb., and one or two offers are said to be below this rate.

AMMONIUM BENZOATE is unchanged on the week, and holds steady after the recent advances up to 5s. and 5s. 3d. per lb.

ASPIRIN on the spot is still offered at 2s. 9d. to 2s. 11d., as to quantity, but it looks as if these rates may be advanced before long.

BARBITONE is tending towards firmer prices, and very few offers are now below 10s. 3d. to 10s. 6d. per lb.

BENZALDEHYDE (.03) is well maintained at 3s. per lb.

BENZOIC ACID is fully maintained at 2s. to 2s. 3d. per lb., with the market finding plenty of inquiry.

BENZONAPHTHOL continues very slow, with the declared value at 5s. per lb.

BORIC ACID.—The British makers' reduced prices given last week hold good, and are likely to govern the market for some time to come. Commercial, crystals, £55; powdered, £57; extra fine, £59. B.P., crystals, £61; powdered, £65 per ton, in 1-ton lots, bags free, delivered in the United Kingdom. Spot prices from dealers are competing with these rates.

BROMIDES.—If anything, the position is a little weaker, with some holders cutting the market; prices are consequently varying. Ammonium, 8½d. to 9d. per lb; potassium, crystals and granular, 7½d. to 8d. per lb; sodium, crystals and granular, from 7½d. to 8½d. per lb.

CALCIUM LACTATE is well maintained at about 2s. 3d. per lb., with business restricted.

CHLORAL HYDRATE.—Duty-paid is steady at 4s. to about 4s. 2d. per lb., as to quantity, and some few orders have been booked.

CITRIC ACID continues very slack, with spot unwanted at the lower rates now current; B.P., crystals, about 1s. 9d. per lb., less 5 per cent. Forward delivery quotations are at very cheap rates.

COCAINE.—Hydrochloride is firm at from 14s. to 14s. 6d. per oz., as to quantity.

CREOSOTE, B.P., is steady at 3s. per lb., although the market has been quieter.

CREOSOTE CARBONATE is declared at 10s. to 10s. 6d. per lb.; the market is very dull.

GUALACOL CARBONATE remains quite stagnant, with the quoted value unchanged at 8s. per lb.

HEXAMINE is a firm market at 3s. to 3s. 3d. per lb., the latter price being for new make.

HYDROQUINONE on the spot is offering at 3s. 6d. per lb., with very few buyers on the market.

MERCURIALS.—Imported calomel is quoted at 4s. 9d., and corrosive sublimate at 4s. 3d. per lb. The German makers have advanced their prices of mercurial salts from 15 to 40 per cent., according to salt.

METHYL SALICYLATE is well maintained, and business has been fair at 2s. 2d. to 2s. 3d. per lb.

METHYL SULPHONAL is seldom asked for, but the price is steady at about 14s. 6d. per lb.

PARAFORMALDEHYDE on the spot is offered at varying prices from 2s. 9d. up to 3s. 3d. per lb.

PARALDEHYDE is steady, and is quoted at 1s. 4d. to 1s. 6d. per lb., as to quantity.

PHENACETIN is a more active market, with 4s. 9d. to 5s. as the basis.

PHENAZONE is now very steady, and might possibly advance a little from the present figures of 7s. to 7s. 3d. per lb.

PHENOLPHTHALEIN continues to advance, and spot material is now considered to be worth 5s. to 5s. 3d. per lb.

POTASSIUM PERMANGANATE continues to show fair activity, with dealers selling at 7½d. per lb.

RESORCIN on the spot is offered at 6s. 3d. per lb., with no record of business.

SALICYLIC ACID, B.P.—The market is very steady at the unchanged rate of 1s. 4d. per lb., in kegs.

SALOL finds occasional demands as offered at about 2s. per lb.

SODIUM BENZOATE.—The market has steadied down to the firm rate of 2s. 3d. per lb., with plenty of inquiry.

SODIUM SALICYLATE is a good market at the rates quoted; powder, about 1s. 10d., and crystals 1s. 11d. per lb.

SULPHONAL continues to be of little interest when offered in the region of 14s. to 14s. 6d. per lb.

TANNIC ACID.—Leviss, B.P., from spot holders is available at about 3s. 4d. to 3s. 6d. per lb.

TARTARIC ACID remains slow in demand, with B.P. crystals offering at about 1s. 1½d. to 1s. 2d. per lb. on spot, and cheaper for forward delivery.

TERPIN HYDRATE is fully maintained at 1s. 9d. per lb., but the demand is poor.

THYMOL is declared at from 18s. 6d. to 20s. per lb., with no record of sales at that price.

VANILLIN is offered at 27s. 6d. to 28s. per lb., which prices are being cut.

Industrial Chemicals, etc.

London, November 22.

THE American wood products, such as formaldehyde, acetone, etc., are still the feature of this market, on account of the continued advances in prices and the active demand. Cream of tartar is cheaper on spot. It is likely that during the next week or two the British makers will be issuing their revised prices for next year's contracts. This week, beyond the items mentioned above, there is little material change to record, and business has been moderately good.

ACETIC ACID stands firm on spot, with the demand quite good; 80 per cent. technical, £40; 80 per cent. pure, £43; 98 per cent. glacial, up to £65 per ton, in casks and carboys, ex wharf, London.

ACETONE.—British Government specification has now advanced to £135 to £140 per ton, in drums, ex wharf, London. Acetone remains very firm indeed, with only a limited quantity available. It is becoming more difficult to replace sales, owing to the general shortage of acetate of lime, and still higher prices are expected.

ALUM.—Lump in bags is only in quiet demand at £13 per ton.

AMMONIA (ANHYDROUS), 99.95 per cent., remains dull, as is to be expected at this time of the year; about 1s. 7d. per lb. as to quantity.

ARSENIC.—Developments are disquieting from consumers' standpoint. Famine conditions are threatened, and the market is certainly very strong, selling agents of Cornish mines quoting this week £53 10s. to £54 per ton for white powder delivered London, and higher prices are even mentioned in some quarters.

BARIUM CHLORIDE is steady but only in small demand on spot at £20 per ton for 98 to 100 per cent.

BORAX.—The makers' prices given last week, showing an all-round reduction of about £1 per ton, hold good, and are likely to remain in force for some time to come. Spot parcels are competing with these rates.

COPPER SULPHATE.—General business is in narrow compass, although fair inquiries are coming forward for export. Makers stand firm at £26 10s. to £27 per ton f.o.b. for casks, less 5 per cent., and foreign competition being less aggressive, there should be no difficulty in holding the market. The October exports were 842 tons, against 442 tons same month last year, the total for ten months amounting to 38,644 tons, compared with 24,854 tons in the same period in 1921.

CREAM OF TARTAR (99 to 100 per cent.) on the spot is now much cheaper, with some offers down to 93s. to 95s. per cwt. for good quantities.

EPSOM SALTS of commercial quality has been in little demand at the steady rate of £6 to £6 5s. per ton, in bags.

FORMALDEHYDE is much firmer and dearer again this week, and spot material is limited in supply; 40 per cent. volume is firm at £80 to £82 per ton, ex wharf, London.

GLAUBER'S SALT is steady, but in no great demand, at £5 per ton, in bags.

LEAD PRODUCTS.—Dealers in imported are quoting at unchanged rates, but find business very slow: red lead, £32 10s. per ton; white, about £36 per ton, c.i.f. London.

OXALIC ACID is well maintained at 7d. per lb. The hearing of the appeal against the inclusion of this product in the key list has been concluded after a very protracted and keenly fought battle. The Referee's decision has not yet been given.

POTASH CAUSTIC (88 to 92 per cent.) is well maintained at £30 per ton on spot, and the position for the future may be at slightly higher rates.

POTASSIUM CARBONATE has been in fair but smallish demand, with 90 to 92 per cent. at £27 to £27 10s. per ton, and 96 to 98 per cent. at 30s. to 31s. per cwt. The latter has been more inquired for.

POTASSIUM CHLORATE on spot is dragging, and offers at 4d. are not being taken up. Forward delivery is quoted at much cheaper rates.

POTASSIUM PRUSSATE is a good and firm market, with yellow at 1s. 6d. per lb.

SALTCAKE is not available from British makers, and the price is nominal at about £4 5s. to £4 10s. per ton; some few lots of foreign is offered for New Year delivery.

SODA ASH (58 per cent. light alkali).—On spot in London the quoted rate is £9, with practically no interest in such offers. Manchester asks about £8, with business slow. Makers' price to domestic consumers on contract is £7 17s. 6d. per ton, but this may be altered any day now for the New Year contracts.

SODA (CAUSTIC).—Dealers state there is absolutely no improvement in the demand—they are quite unchanged at 70 to 72 per cent., £19 10s.; 76 to 77 per cent., £21 10s. per ton, in drums, ex-wharf, shipping port. British makers' prices to domestic consumers on contract are at: 70 to 72 per cent., £20 5s.; 76 to 77 per cent., £22 10s. per ton. Their prices for the New Year contracts, which will be issued shortly, will probably show an alteration.

SODIUM BICARBONATE from British makers for home trade only is £10 10s. per ton, in bags, delivered in the U.K. This price may be altered shortly.

SODIUM CHLORATE is offering very cheaply for forward positions; on spot there is very little demand for material offered in the region of 3d. per lb.

SODIUM HYPOSULPHITE.—Spot parcels of pea crystals, packed in 1 cwt. kegs, have been rather slower in demand of late after a spell of good business. The price is easy at £17 per ton for ton lots.

SODIUM NITRATE has been reduced to £12 15s. per ton f.o.r. Liverpool.

SODIUM PRUSSATE is firm and active, with spot supplies limited; 11d. per lb. is the lowest offer recorded.

SODIUM SULPHIDE remains dull on spot: 60 to 62 per cent. solid, £17 per ton, in drums; 60 to 65 per cent. concentrated, £17 10s. per ton, in casks.

COAL TAR PRODUCTS, ETC.—Pitch stands very firm on an active market. Carbohc acid crystals are dearer again this week. Naphthalene seems steadier. Other products are unchanged on the week. PITCH is very firm on a good market at 127s. 6d. per ton. Pure METHYL ALCOHOL has advanced to higher figures again this week, and the market closes firm with probability of further movement; ex wharf, London, at £90 to £95 per ton. CREOSOTE OIL tends to firm up at 7d. per lb. on a bright market. CARBOLIC ACID crystals are again this week firmer with values now at 8½d. per lb. in large bulk packing. PYRIDINE is declared at 6s. per lb., which shows a slight advance on the week. HEXAMETHYLENE is steady at 2s. 10d. per gallon on a dull market. NAPHTHALENE is an improved market with quotations still at £17 per ton; crude, £5 to £8 10s.; crystals, £16; powder, £16; balls, £24; candles, £34; tablets, £34 per ton, packages free.

Fixed Oils, etc.

TAKING the market as a whole, there has been a fairly steady tone, and business has been progressing moderately and generally for smallish lots. Linseed closes irregular and turpentine is quite inactive. Palm oil is a good market. **ACID OILS.**—There is a very steady tone, and business has been good. **CASTOR OIL.**—The prices quoted ex mills, Hull, are unchanged in ton lots: Pharmaceutical, 53s.; first pressings, 48s.; second pressings, 46s. **COCONUT OIL.**—There is a slight tendency to firmer prices in this market: deodorised, 44s.; Ceylon, 39s.; Cochin, 44s. **COTTONSEED OIL.**—A steady tone prevails, with rates unchanged: deodorised, 44s.; common edible, 41s.; soap-making, 39s.; crude, 35s. **GROUNDNUT OIL.**—Crude Oriental has advanced to 47s., with deodorised unchanged and steady at 51s. 6d. **LINSEED OIL.**—Despite the restricted home demand, the tendency has been somewhat harder again due to the limited quantities in crushers' hands, but the aspect of the forward market is, nevertheless, bearish, in sympathy with the outlook for raw material. Demand for the latter for near shipment or parcels afloat has been rather better. Our exports of linseed oil for October amounted to only 2,065 tons, against as much as 8,387 tons for October last year, when the movement of supplies to the United States was intense. The total for the ten months at 56,229 tons, nevertheless, denotes a substantial excess compared with the same months last year, for which the aggregate represented 45,939 tons. Business in raw naked oil has been spasmodic: On spot, 37s. 6d. to 38s.; November, about 36s. 6d.; December, 35s. 3d.; January-April, 31s. 3d. to 31s. 6d.; Hull, on spot, 36s.; November, 37s. 3d.; November-December, 35s. 6d.; January-April, 31s. 4½d. per cwt. **PALM-KERNEL OIL.**—The better prices of last week are fully maintained: deodorised, 44s.; crude, 36s. **PALM OIL.**—Prices dropped slightly early on in the week, but there is now a firmer tone: Lagos, 34s. 9d.; softs, 34s.; hards, 35s. 6d. The feature of the market is the high price of hards. **RAPE OIL.**—A quiet week has been experienced, with refined at 47s. and crude at 43s. **SOYA BEAN OIL.**—Deodorised has dropped to 42s. 6d., but is now steady; crude Oriental c.i.f. for shipment is unchanged at 36s. **TURPENTINE.**—The market has had rather frequent ups and downs, being unsettled, this being to some extent due to the fluctuations in the American exchange. Business has been limited, although deliveries against outstanding contracts have been quite large of late. Warehouse stocks remain comparatively low. Our imports for October amounted to 3,205 tons, against 2,944 tons for October last year, the total for ten months being 16,584 tons, compared with 12,579 tons same period last year. Spot quotations are about 3s. lower on the week: on spot, 116s.; November, 116s.; December, 116s.; January-April, 117s.

German Chemical and Drug Markets

THE introductory remarks to the market report, dated November 16, of a leading Hamburg wholesale drug house are devoted to lamentations anent the devaluation of the German mark. Each new conference only serves to further depreciate the value of the German currency; when the Reparations Commission began its fruitless, purely theoretical work the dollar stood at 4,000 marks, and when it had terminated its labours the dollar commanded no less than 8,000 marks. The state of European finance is becoming more chaotic from day to day; already the currencies of Russia, Poland and Austria possess practically no international value, and now Germany has joined the ranks of this category. Germans travel on German railways heated by British coal, paid in foreign currency, while trainloads of German coal are being sent continuously to France. In the drug and chemical markets prices continue to advance; the following quotations are in marks, for one kilo.:

ACETANILIDE is m. 2,400.

ACETYSALICYLIC ACID.—Manufacturers have advanced their prices. Offered at m. 6,000, and for export at the specially low price of Belgian francs 16.

AGAR-AGAR.—Spot stocks are practically cleared and higher prices are expected to rule until the new crop comes in. Kobe I. is offered at 5s. 3d. per lb., Kobe II. at French francs 27.50 per kilo.

BALSAM PERU.—Original genuine has been neglected at the high price of \$4 per kilo. Commercial quality and Ph.G.V.

has been in good demand, both for the home market and for export, at m. 7,000 for Germany, while for export the price is 5s. per kilo.

BENZALDEHYDE, almost free from chlorine, for foodstuffs, is very scarce; offered at m. 1,600.

CITRIC ACID.—It is stated that American, German and Italian makers are engaged in negotiations designed to fix prices. Should an agreement be reached, prices are likely to advance, whereas if these negotiations should prove abortive, they will be ruled by competition. The present price for Germany and for export is lire 21.

COUMARIN.—The price has been repeatedly advanced by manufacturers. For the home market the price is m. 20,000.

CREAM OF TARTAR (98-100 per cent.) has been considerably advanced by makers. Offered cheaply at m. 2,600.

ERGOT.—Large transactions have taken place, particularly for export at 3s. 9d. per kilo; for Germany the price is m. 6,500.

GENTIAN.—Entire is quoted at francs 2.25.

GLYCERINE, chemically pure, 28 deg. Bé is offered for export at florins 83 per 100 kilos.

HELIOTROPINE is m. 22,000.

HEXAMETHYLENTETRAMINE.—The export price is \$1.10 per kilo.

MENTHOL CRYST.—The price has advanced and a further increase is expected. A few cases due are offered at 32s per lb.

MILK SUGAR.—Higher milk prices and scanty supplies of crude milk sugar have led to an advance in price.

PHENACETIN has been purchased particularly by foreign buyers, and now fetches Belgian francs 27.

PHENOLPHTHALEIN has been in considerable demand at m. 10,000, and for export in foreign currency on the basis of m. 12,000.

POTASSIUM SULPHOGUAIACOLATE is m. 10,000; for export Belgian francs 26.

SALICYLIC ACID is offered for export at Belgian francs 8.

SANTONIN.—The price for export is £79 10s.

TARTARIC ACID.—Crystals and powder are quoted m. 4,000, for export florins 1.40.

VANILLIN.—In spite of the enormous advance in price, the demand remains satisfactory: present price m. 78,000; for export 47s. per kilo.

German Reparation Dyestuffs

THE British Chemical Trade Association have received the following communication from the Board of Trade giving their decision on the question of "trade discount" to merchants purchasing from Reparation Stocks:—"With reference to your letter of October 16 regarding the arrangements for the distribution of dyestuffs obtained from Germany as Reparation, I am directed by the Board of Trade to state that they have given careful consideration to the representations made in your letter and in previous communications to the effect that special facilities by way of a discount should be extended to merchants purchasing quantities of dyestuffs from the Reparation stocks, and they are prepared to extend the proposals outlined in the notice which appeared in the Press on September 27, so that the rebates referred to for quantities of not less than four cwt. shall apply not only to orders of any one particular dyestuff, but also to orders for one or more dyestuffs placed simultaneously but amounting in total to more than 4 cwt. The Board are, however, unable to see their way to institute any general system of discounts to merchants irrespective of the quantities purchased."

In Bulletin No. 44 the Association gave particulars of the rebates to be allowed for large purchases as follows:—Four cwt. of any one particular dyestuffs up to one ton, 1d. per lb. discount; one ton and upwards of any one particular dyestuff, 2d. per lb. discount.

The further concessions granted in the above letter mean that members placing an order for any number of different dyes totalling altogether to four cwt. up to one ton will secure a discount of 9s. 4d. per cwt. Similar orders of one ton or more will secure a discount of 18s. 8d. per cwt. The above concessions, although appreciated, are much below what was suggested, but it is believed that the Association's proposals to give trading facilities to merchants by way of a "trade discount" of about 10 per cent. met with fierce opposition in certain quarters.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Japanese Pharmacopœia—IV.

SIR,—Exporters of fine and pharmaceutical chemicals to Japan have often in the past experienced certain difficulties that chemicals, after analysis in Japan, were found not to conform with the requirements of the Japanese Pharmacopœia IV., although these chemicals were, when being shipped, absolutely in conformity therewith. Investigations proved that the only explanation of this discrepancy is due to the chemical in question being unduly exposed to the air at the time of Customs' examination in Japan, or when the samples were drawn for testing, or for some other similar causes. The P.J. IV. requires that certain chemicals, such as potassium sulphoguaicolate, should not show any change as regards weight at a temperature of 100 degrees, which, for reasons of the above, is in practice quite impossible, however carefully the chemical may have originally been dried and packed. Such chemicals must naturally immediately draw moisture as soon as exposed to the air, unless the handling is carried out under suitable conditions. For the above-described reasons, claims in the past were, of course, found to be justified, and the contention that the chemical did not answer to the requirements of the P.J. IV. was substantiated at the time by an official analytical certificate. It is on account of the aforesaid underlying circumstances that readers' special attention is drawn to the causes of the variance of the quality of such chemicals after arrival in Japan, which, of course, is beyond the control of chemical manufacturers, who therefore, it is reported, have adopted in future, as a general rule, a modus that they guarantee the chemical to answer to the requirements of the P.J. IV. when such chemicals are leaving the works, but beyond this they will not accept any further responsibilities. It therefore appears to be in the interest of all parties shipping such chemicals to Japan, in safeguarding their interests, to see that, in case of doubt, an official analytical certificate is obtained prior to shipment, as otherwise manufacturers cannot recognise any further liability, should a claim reach them.

Yours truly,
EXPORTER.

Irish Company Apprentices

SIR,—The Pharmaceutical Society of Ireland have some important changes in the examinations in contemplation, and I think the very first thing they should do is to remove the injustice which the present regulations impose on company apprentices. In most cases these apprentices acquire a better knowledge of drugs, compounding, and business in general than the average apprentice in a private business, particularly in country districts, where the number of prescriptions for a whole month could be counted on the fingers of one hand. Such an apprentice, when compared with a young man in the city company shop, cuts a very poor figure. I think most Irish pharmacists would be glad to see this anomaly removed. As to the proposal to substitute a University Matriculation for the present preliminary examination, I think this is not the time to make such a drastic change, when the general condition of the country, both north and south, is so unsettled. The General Medical Council do not require medical students in all cases to be of university standing, and I do not see why pharmaceutical candidates should be handicapped at the bidding of a few educational cranks. I am all for higher education, etc., but I fear that the agitators for a higher standard in this case have made themselves ridiculous by the intemperance of their language and the extravagance of their demands. Certainly, to call the present candidates "hewers of wood and drawers of water," and to compare their education

with that of the average errand boy, is neither temperate nor just. We, the rank and file Licentiates, have every confidence in the members of the Council, and we know that they will turn the extremists down. Let them be moderate in their changes, and do nothing to dislocate things pharmaceutical at the present critical time. If they abolish the present registered druggist examination, and give some substantial inducement to registered druggists in the form of a modified licence examination without a preliminary examination, and also recognise company apprentices, I think they will have done all that needs to be done at the moment, and will earn the respect and confidence of every Irish pharmacist as well as the gratitude of the registered druggists and company apprentices.—Yours truly,

L.P.S.I. (17/11.)

The Major Examination

SIR,—I am not quite sure whether the wrath of "Ph.C." (*C. & D.*, November 11, p. 683) has been aroused by my previous letter on higher education for chemists, or by "Xrayser II.'s" remarks in the same issue on the title, but I can assure "Ph.C." that I have not the slightest hankering after his title either in the direct or indirect method. I am quite familiar with the way to No. 17; in fact, I have ascended the stairs to the top storey on study bent many times in my younger days. I am quite satisfied with the certificate I obtained enabling me to open a pharmacy. Moreover, I am quite satisfied with the title of "chemist," *tout court*, as that is the one that matters in retail business. What I wished to point out was the amusing paradox of reserving the word "pharmaceutical" to the graduates of an examination which contained no paper in pharmacy at all; this view seems to have escaped "Ph.C.'s" observation altogether.—Yours faithfully,

"AN OLD STUDENT" (13/11).

The Educational Crisis

SIR,—The remarks of Mr. E. Saville Peck at the dinner of the Leeds Chemists' Association (*C. & D.*, November 18, p. 706) embody some of the best views on the present educational crisis that I have read up to the moment. His opinion that the present curriculum is ample for the purposes of shop pharmacy is, and has been, the opinion of most pharmacists who have followed the trend of events, and who are not hampered in their judgment by any connection with the educational part of the system. The trouble at the time being is the direct converse to this view, and that is that shop pharmacy is not ample enough under to-day's conditions for the holders of the certificates, and I am quite at one with Mr. Peck in his demand for better recognition and remuneration for the present holders of the qualification. When we come however, to an extension of the subjects included in the Society's syllabus to such things as bacteriology, medico-physics, etc., we are leaving pharmacy behind us and treading on new ground, and such a step would create a new class of men who, whatever they started as, could by no stretch of imagination be termed pharmacists, although their original training in pharmacy would be a good groundwork, just as it is at present for those men who leave pharmacy to go in for analytical or works chemist. Before we commit ourselves to such a curriculum, I think it would be desirable to be assured that our young men would receive their heritage when earned, as it is not to be forgotten that the medical profession has quite as many surplus candidates as our own, and the advantage of having a clinical worker who possessed in addition a medical degree is not likely to be overlooked by those who will have the livings within their gift.—Yours, etc.,

THE COMPLETE PHARMACIST (18/11).

Enclosed please find cheque, being my subscription for the *C. & D.*, which, I may say, I always find so helpful in various questions in connection with our business. It saves me my subscription a good many times during the twelve months. I really could not possibly afford to try to "carry on" these days without it. With best wishes for the future. (13/9/40.)

Legal Queries

C. R. W. (15/11) let premises recently on a yearly tenancy. The tenant has gone away without giving notice, owing several weeks' rent. The first year of the tenancy does not expire until June next. How does "C. R. W." stand? [The tenant remains liable to pay the rent until the tenancy has been terminated in accordance with its terms. As the tenant has apparently removed his furniture and effects, "C. R. W.'s" only remedy is to sue him for the rent due.]

G. W. B. (21/11) was granted a lease of a shop, and his landlord subsequently mortgaged the property. The mortgagee now threatens to sell the premises on account of the mortgage interest being in arrear, and "G. W. B." asks how he stands with regard to his lease, of which five years have yet to run. [Even if the premises are sold "G. W. B.'s" position will not be affected beyond the fact that he will have to pay his rent to the new owner instead of to the original landlord.]

Spero (15/11).—In regard to the partnership of an unqualified person with a registered dentist, this is not necessarily illegal after November 30, if the unqualified person does not "practise or hold himself out, whether directly or by implication, as practising or as being prepared to practise dentistry." In the case you mention of a "sleeping" partner whose name is not used in connection with the partnership and who does not attend at the dentists' surgery, it would not appear that he is "practising" dentistry.

M. R. D. (15/11).—The practice of dentistry, which includes "the performance of any such operation and the giving of any such treatment, advice or attendance as is usually performed or given by dentists, etc." is illegal from November 30 by others than registered persons and doctors, except that a pharmaceutical chemist or chemist and druggist may extract a tooth, without the use of an anæsthetic, "where the case is urgent and no duly qualified medical practitioner or registered dentist is available." We agree with you as to the inhumanity of this provision.

D. F. F. (16/11) occupies premises under a lease which throws upon him the responsibility for "inside decorations and repairs," the landlord undertaking "to keep the exterior of the said premises in a condition fit for habitation and carry out any structural repairs that may be necessary to maintain the premises in such condition." One floor is now in a bad state, the joists having given way owing to dry rot. Who is responsible for the necessary repairs? [In our opinion the landlord is liable to carry out the necessary repairs, as the condition of the floor is due to the failure of the joists.]

G. S. B. (11/11) took over his present business on November 1, 1921, from a predecessor, who kept no books, and appears to have accepted the income tax assessment without question. (1) He is now being assessed for the year 1922-23, as for 7 months, at his predecessor's rate, and five on his own trading figures, and he asks if this is correct. (2) He also wants to know if it was right he should be charged at the rate of 6s. in the £ on his house for the year ending April 5, 1922, as his income was for that year under £500. (3) He has just taken an apprentice, aged 17, to whom he pays 10s. a week, and he asks if the youth must be insured under the National Health and the Unemployment Insurance Acts. [(1) In the ordinary course, the assessment may be based on the trading profits made by the predecessor, but such assessment can be appealed against within six months of the close of the year, if the actual profits of the year have fallen short of those assessed owing to some specific cause, such as the withdrawal of the predecessor might be. (2) This depends upon whether or not he is owner of the house he occupies. If only tenant, the rate of 6s. is correct. Tax at this rate should be retained out of the rent paid by "G. S. B." and the sum deducted handed over to the tax collector. If "G. S. B." is also owner, the annual value of the house is included with his other income and taxed at the appropriate rate. (3) The apprentice is insurable under both insurance systems.]

R. C. (16/11) refers to the fact that persons other than chemists are in the habit of selling spirit of nitrous ether and tinctures without a licence to sell spirits, and asks whether this privilege was not originally meant for chemists only. [The foundation of the privilege was the Act of 1742, which exempted from licence "physicians, apothecaries, surgeons and chemists" selling or dispensing spirits or spirituous liquors made up in medicine. This had long been recognised as confined to duly qualified chemists and druggists. When, however, the Poisons and Pharmacy Acts extended the right to sell poisons, which had previously been confined to registered chemists and druggists, to companies not composed of such chemists and druggists, provided they kept in their service a duly qualified chemist, under whose direction the poisons were sold, the Commissioners of Excise followed the lead thus given, and extended the privilege of selling medicated spirits to companies employing a duly qualified chemist and druggist. So far as we know there is no privilege extended to anyone beyond this, and an ordinary shop-keeper selling such preparations would risk being prosecuted.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

W. M. M. (23/9).—The ingredients in a liquid metal polish can be conveniently suspended by the addition of either oleic acid or water-glass.

S. W. (4/11).—COLOURING ELECTRIC LIGHT GLOBES.—This is managed by dipping them in a coloured varnish. The varnish may be equal parts of white hard spirit varnish and spirit coloured with aniline dyes. Aurantia or erythrosine give a fine red effect. Green is managed with emerald green and blue with methylene blue.

J. & S. (11/11).—INFLUENZA MIXTURE P.F. 41.—The formula is as follows:

Ammon. brom.	...	...	5x.
Quinina	...	...	3ijss.
Ac. sulph. dil.	...	...	q.s.
Ac. hydrobrom. dil.	...	...	3j. 5vj.
Ess. camph. (1 in 32)	...	...	3v.
Inf. pruni virg. conc.	...	...	3ij.
Sacch. alb.	...	...	3iv.
Chloroform.	...	...	3iss.
Aq. dist.	...	...	ad. Oiv.

K. & S. (13/11).—The sum you mention as being paid to an unqualified junior is about the average now, but possibly he may be worth encouraging by an increase of salary.

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," November 15, 1872

Presentation to Mr. Hampson

The purpose for which the Chemists' Defence Association was instituted having been fully accomplished, and its labours brought to a successful termination, it was felt by the committee that before the Association was finally dissolved, some acknowledgment ought to be made to Mr. Robert Hampson, the late honorary secretary, whose unwearied exertions and untiring devotion contributed so materially to its success. Subscriptions were accordingly solicited from the members in order that a suitable testimonial might be procured, and sufficient funds having been collected, the committee decided to purchase a silver inkstand, with gold pen and holder, as being the most appropriate articles for presentation to one whose pen is ever ready in the service of pharmacy, either to advance its interests or defend its cause. It was intended that the presentation should be made to Mr. Hampson at a public meeting of the subscribers, but that having been found impracticable, the inkstand was exhibited at the October meeting of the Manchester Chemists' Association, and afterwards forwarded to him with an address on vellum.

ENO

substitutes may
show equal profits
but never equal
quality



The far-sighted pharmacist of to-day realises that the significance of a sale is something greater than merely the exchange of money for kind; a sale has infinite possibilities—for well or ill. The retailer who sells an inferior article at a big profit to himself is inviting the forfeiture of his customers' confidence and esteem. On the other hand, his hearty recommendation of a tried and

proven product such as ENO's "Fruit Salt" is bound to react in his favour, because the product itself is sure to please. It is the *quality* of ENO's "Fruit Salt" that makes it outstanding among a host of imitations—that has made possible its record of over half a century's ever-increasing popularity. It is its quality, too, that makes it a standard, reliable "seller" all the year round, which no wise retailer can ignore.

ENO's "Fruit Salt" is one of the most desirable and profitable lines you can wish to sell. Your profit is 4½d. to 5½d. on the 1/9 size, or 8d. to 9½d. on the 3/- size, according to the quantity you buy. The retail price is protected by the P.A.T.A. It has an unequal reputation for quality, palatability, economy and popularity. It is a "seller" all the year round. It is always advertised in a dignified yet forceful manner, thus keeping it in constant demand. Its use is advocated by the medical profession.

ENO'S "FRUIT SALT"

For Order Forms, Advertising Material, and details of our SPECIAL WINDOW DISPLAY OFFERS, please write to the SALES MANAGER, J. C. ENO LTD., Lever House, Victoria Embankment, London, E.C.4.



Watch
your paper
for the
ENO
Advertising

UNDER
Laboratory Control
FROM

Farm

Aconite
Belladonna
Colchicums
Digitalis
Hyoscyamus
Valerian
etc.

Guaranteed
PREPARATIONS

of the drugs are manufactured
from **PLANTS** grown under
Laboratory Control by

to

Pharmacy

DUNCAN, FLOCKHART & Co.

EDINBURGH & LONDON.

155 FARRINGTON ROAD, E.C.4.

Trade Mark

Roche

BRAND

**ALKALOIDS
CHEMICALS**

**SANTONIN
B.P.**

CRYSTALS

In Original Russian Parcels
For Immediate Delivery.



THE HOFFMANN-LA ROCHE CHEMICAL WORKS, LTD.
7 & 8 Idol Lane, LONDON, E.C.3.

TABLETS & PILLS

**Cheapest and Best
House in the Trade**

WRITE FOR QUOTATIONS

PRIVATE FORMULAE A SPECIALITY

Finest Quality Chemicals
and Drugs only used

ENQUIRIES ATTENDED TO PROMPTLY
RING UP—CLERKENWELL 4266

CASTLE HUSKISSON, LTD.

Swinton Works, Moon Street,
ISLINGTON - LONDON, N.1.

ESTABLISHED 1768

MALT EXTRACT WITH COD LIVER OIL

We can quote you advantageous prices for Malt Extract with Cod Liver Oil, also Malt Extract, both packed, labelled and delivered when and where required.

Our list of toilet preparations will be of interest to you. Send for a copy.

FOR IMMEDIATE DELIVERY:—

HEXAMINE

ASPIRIN

ACID TANNIC

(TECH. & LEVISS)

ACID PYROGALLIC

(CRYST. & RESUB.)

ALSO:—

CHEMICALS FOR ALL PURPOSES

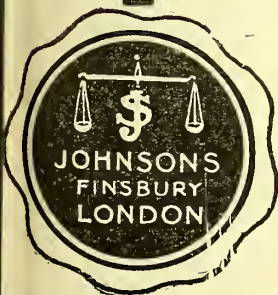
JOHNSON & SONS,

Manufacturing Chemists Ltd.,

23 CROSS ST., FINSBURY, E.C.2.

Telephone : Clerkenwell 1660 (3 lines),

Telegrams : "Caustic, London."



ALKALOIDS

Fine Chemicals Opium Derivatives

SALICIN
CAPSICIN
CANTHARIDIN
PODOPHYLLIN
HYOSCYAMINE
HOMATROPINE
JALAP RESIN
IRIDIN
ALOIN
GINGERINE
LITHIA SALTS
SCAMMONY RESIN

MORPHINE
CODEINE
STRYCHNINE
CAFFEINE
EMETINE
THEOBROMINE
CHLOROFORM

OPIUM
TELA VESICATORIA
VERATRINE
ATROPINE
CHRYSAROBIN
DIAMORPHINE
EMETINE
BISMUTH IODID.
EMP. CANTH. LIQ.
ETHYL MORPHINE
HYDROCHLOR.
ERGOTIN

T. & H. SMITH LTD

BLANDFIELD WORKS: 25 CHRISTOPHER STREET: 32 & 34 VIRGINIA STREET
EDINBURGH : LONDON, E.C.2. : GLASGOW.

SALICYLIC ACID, B.P. ASPIRIN, B.P.

**British Manufacture.
Finest Quality.
Lowest Price.**

Any quantity, spot or forward.

Write, wire, or phone :

PIERSON, MORRELL & CO. Ltd.

The Original British Aspirin Makers,

100 QUEEN'S ROAD, BARNET.

Telephone : Barnet 723. Telegrams : Pierson Morrell, Barnet.

J. C. ARNFELD & SONS Ltd.

ESTABD. 1786.

SPECIALISTS IN
Drugs & Galenicals
IN BULK.

**FINEST QUALITY AT
COMPETITIVE PRICES.**

RASPBERRY VINEGAR

GENUINE EX FRUIT.

WE CAN OFFER TO SPECIAL ADVAN-
TAGE AND INVITE ENQUIRIES
FROM LARGE BUYERS.

Telephone :
601
Private Branch
Exchange.

Wholesale Druggists,
STOCKPORT.

Telegrams :
"Chemicals,
Stockport."

OPOIDINE

REGD

THE Total Alkaloids of Opium in soluble form; one part of Opoidine being equivalent to five parts of Opium.

**HYPNOTIC
SEDATIVE
ANALGESIC
HÆMOSTATIC &
ANTISPASMODIC**

Its instant solubility in water ensures immediate action, whether administered per os, per rectum or hypodermically.

Opoidine produces the full effects of Opium, with the advantage that it contains the mixed active principles in uniform ratio, whilst in Opium the proportion varies greatly.

The British Pharmacopœia standardises Opium for its Morphine content only.



*Free Samples to the Medical
Profession on application to:*

J. F. MACFARLAN & CO.

9 & 11 Moor Lane, LONDON, E.C.2

AND

Abbeyhill Chemical Works, EDINBURGH.

GRAND PRIX, BRUSSELS, 1910
GRAND PRIX, LONDON, 1909
GOLD MEDAL, ST. LOUIS, 1904

Estab. 1844.

Thomas Tyrer & Co.

LIMITED.

Thomas Tucker, Manager.

Stratford, London, ENG.

Tel. Nos.: MARYLAND 2510 and 2511.

*Our Reputation
Your Guarantee*

“Sterling”

BRAND

FINE CHEMICALS

Pharmaceutical and Technical.

**ETHERS, HYPOPHOSPHITES
BISMUTHS, MERCURIALS,
GRANULAR AND SCALE
PREPARATIONS.**

Acetone, Acids, Amyl-Acetate, Anti-
mony Salts, Barium Salts, Bromides,
Citrates, Collodions, Calcium Salts,
Copper Salts, Driers, Iodides, Lead
Salts, Manganese Salts, Nickel Salts,
Phosphides, Phosphates, Potassium
Salts, Pyroxylin, Siccatives, Sodium
Salts, Sulphur, Thorium Salts, Tung-
sten Salts, Zinc Salts.

Rare Gases—

Argon, Helium, Neon, Krypton.

CHAS. PAGE & CO., LTD.

47/51 KING WILLIAM ST., LONDON, E.C.4.
422/425 Royal Exchange, Manchester. 31 St. Vincent Place, Glasgow,

Offer at first hand.

ACETANILIDE
ACID TANNIC
BROMIDES

HEXAMINE
PHENACETIN
SALICYLATES

WHOLESALE QUANTITIES ONLY.

TELEPHONES { HEAD OFFICE: MINORIES 2250 (3 lines).
MANCHESTER: CENTRAL 1882 (2 lines).
GLASGOW: CENTRAL 452.

TELEGRAMS { "PAGANINI LONDON."
"PAGANINI MANCHESTER."
"PAGANINI GLASGOW."

Pyrogallic Acid Gallic Acid

Manufactured by **J. L. ROSE**
At ABBEY ROAD, BARKING, LONDON, E.
Wholesale and Export Only.

FINE CHEMICALS, Ltd. 40, MARY ST., DUBLIN.

INVITE ENQUIRIES FOR
CARRIGEEN (IRISH) MOSS,
FINE CHEMICALS,
HEAVY CHEMICALS.
KEEN QUOTATIONS OFFERED.

PURE COLD-DRAWN CHAULMOOGRA OIL HYDNOCARPUS OIL, GURJAN BALSAM.

Manufactured by **S. N. De, M.Sc. (Botany)** Post Box No. 7851, CALCUTTA.
Exporter of Indian Botanic drugs of every description.

Cables: Podophyllum,
Codes: A.B.C. 6th Ed.
& Bentleys.

LAVENDER FLOWERS

Camomiles, Liquorice Sticks, Orris Root,
Juniper Berries, Bay Leaves, Henna Leaves.

Horace Battin & Co., Ltd.

PORT OF LONDON BUILDING,
Seething Lane :: London, E.C.3

Telephone:
Minories 1020.

Telegrams:
"Hobato, Phone, London."

SANTROCYL CAPSULES

(An improved Santal Wood Preparation)
SPECIALLY MANUFACTURED for ALL CLIMATIC CONDITIONS.

Bottles or Boxes containing 36 Capsules 24/6 per doz.
May be obtained through most Wholesalers and Export Agents.
JOHN W. MAWSON & CO. LTD., Medicinal Capsule Makers,
West Norwood, LONDON, S.E. 27 'Phone: Streatham 718

SODA SALICYLATE

ACTUAL MANUFACTURERS:
**Warrington
Chemical & Drug Co.**
Paddington Works, Nr. WARRINGTON
Tel. Add.: "Salicin Warrington."



Hubbuck's Pure Oxide of Zinc

is made by sublimation, and is
warranted to contain upwards of
99.5 PER CENT.
of pure oxide; in fact the
impurities are not traceable.

Thos. Hubbuck & Son, Ltd.

ESTABLISHED 1765

24 Lime Street, London, E.C. 3.

MANUFACTURERS OF WHITE LEAD, WHITE
ZINC, PAINT, OILS, COLOURS, VARNISHES, &c.

Australian Office: 34 Queen St., Melbourne.

*Sold by the following Wholesale Druggists
in Boxes of 7 lb. and 14 lb. stamped by
the Manufacturers; also in 1-lb. Boxes and
1-lb. Glass Bottles.*

Allen & Hanburys (Lim.)
Ayrton, Saunders & Co.
(Lim.)

Baiss Bros. & Company
Bell, Jno., & Co. [(Lim.)
Bleasdale (Lim.) [(Lim.)

Boots' Pure Drug Co.
British Drug Houses (Lim.)
Burgoyne, Burdidge & Co.

Butler & Crispe [(Lim.)
Clay, Dod & Co.
Cockburn & Co. (Lim.)

Corbyn, Stacey & Co.
Dakin Brothers - [(Lim.)
Duncan, Flockhart & Co.

Evans, Gadd & Co.
Evans Sons Lescher &
Webb (Lim.)

Ferris & Co.
Gale & Co.
Glasgow New Apothecaries' Co.

Goodall, Backhouse & Co.
Harker, Stagg & Morgan
(Lim.)

Harkness, Beaumont &
Co.
Hatricks, W. & R., & Co.

Hirst, Brooke & Hirst
Barry, E. J., New York
Finlay, Dicks & Co., New
Orleans

Chas. L. Huisking, Inc.,
5 Platt Street, N. York
Lehn & Fink, Inc., N. York

McKesson & Robbins,
Inc., New York

Hodgkinson, Prestons &
King
Hodgkinsons, Clarke &
Ward

Horner & Sons
Huskisson, H. O., & Co.
Inman's Stores (of Edin-
boro')

Lofthouse & Saltmer
(Lim.)
Oldfield, Pattinson & Co.

Pinkerton, Gibson & Co.
Raines, Clark & Co.
Raines & Co.

Rankin & Borland
Silversides, R. B. G.
Smith, T. & H. (Lim.)

Southall Bros. & Barelay
Summer, R., & Co.
Taylor, James

Thompson, John (Lim.)
Wilkinson & Simpson
(Lim.)

Willows, Francis, Butler
& Thompson (Lim.)
Woolley, Jas., Sons &
Co. (Lim.)

Wright, Layman & Um-
Wyleys (Lim.) [ney (Lim.)

Muth Brothers & Co.
Baltimore
Roller & Shoemaker,
Philadelphia

Schieffelin & Co., Inc.,
New York.
Shoemaker & Busch,
Philadelphia

EPSOM SALTS, B.P. and Commercial, also Ground, Desiccated, Medium and Coloured.

HYPOSULPHITE OF SODA, Photographic and Commercial.

GLAUBER SALTS, B.P., Crystals and Desiccated.

ALUM, Ground.

SULPHITE OF SODA, Photographic and Commercial.

SULPHITE OF LIME.

PRECIPITATED CHALK, No. 2.

CARBONATE OF SODA CRYSTALS, Photographic.

E. BRAMWELL & SON, Ltd., Navigation Chemical Works, St. Helens, Lancashire.
Telephone: St. Helens 451. Telegrams: "Bramwell, St. Helens."

BURKETT, SHARP & CO., LTD.

DRUGS

21, MINCEING LANE,
LONDON, E.C. 3

CHEMICALS

STANDARD WOOD CHEMICALS CO., LTD.

FORMALDEHYDE 40% by Volume

Of Canadian Manufacture.

Spot or Forward Delivery.

Address—23 COLLEGE HILL,
CANNON ST., LONDON, E.C. 4.

Telephone No.—
City 7012.

Telegraphic Address—
"Woodalco, Cannon, London."

HOUGH, HOSEASON AND COMPANY LIMITED

BE CONVINCED!

Allow us to send you Samples of the
following:

SYR. FERRI PHOSPH. CO.

ELIX. TERPIN CO. & HEROIN

INF. GENTIAN. CO. CONC., 1-7

You will be Convinced of the Quality and
simply amazed at the Price.

**SUN BUILDINGS, BRIDGE STREET
MANCHESTER.**

Works - HOLLAND STREET, PENDLETON



GOODALL BACKHOUSE AND COMPANY

Invite your kind enquiries
and orders for

**Drugs, Chemicals, and
Pharmaceutical Preparations,
Packed Goods and Specialities,
Patent Medicines & Proprietary
Articles.**

**Druggist's Sundries,
Pills, Tablets, etc., etc.**

You will find our QUARTERLY and
DRUG LISTS constantly useful. May

:: :: we send you Copies? :: ::

GOODALL, BACKHOUSE & CO. LEEDS

WELCH & HORNER

9-10 Jewry Street, and Carlisle Avenue, London, E.C. 3.

Telephone: Avenue 3070.

Telegrams: "Orrisroot, Fen, London."

Aloes (Curaçao and Cape)

Balsam Tolu

„ Para Capivi

Block Juice

Cardamoms

Castile Soap

Celery Seeds and Powder

Calamus Root

Colocynth Pulp

Dandelion Root

English Belladonna Leaves

Essential Oils

Euphorbia Pilulifera

Gentian Root

Gum Tragacanth

Ipecac.

Irish Moss

Japanese Isinglass

Kola Nuts

Licorice Root

Lavender Flowers

Marshmallow

Orange Peel

Orris and Senega Roots

Quassia Chips

Quillai

Rhubarb E.I. (all grades)

Sarsaparilla

Scammony Root

Senna Leaves and Pods

Squills

Sulphur Flowers

Sweet Herbs, etc.

Valerian Root

❖ Kindly write for Price List. ❖

ESTABLISHED 1772

HENRY'S CALCINED MAGNESIA

Continues to be prepared with scrupulous care, in the greatest chemical purity by

Messrs. THOMAS & WILLIAM HENRY, 11, East Street, St. Peter's, Manchester.

And is sold in Bottles, authenticated by a stamp bearing their name.

Trade Mark, "Henry's Calcined Magnesia."

New York: Messrs. SCHIEFFELIN & CO., William Street

PRICE 2s 9d

Paris: Messrs. ROBERTS & CO., 5, Rue de la Paix

NIGROIDS

for the Voice and Throat.

Wholesale terms on application. Nigroids are stocked by all the Wholesale Proprietary Houses.

FERRIS & CO., Ltd., Wholesale Druggists, BRISTOL.

Registered Trade Mark

The word "Nigroid" is the registered property of Ferris & Co., Ltd., and represents the product invented and introduced by them.

Telephones: London Wall 4391 & Bank 275.

Cable Address: "TAARINCO LONDON."

THE EASTERN AND RUSSIAN TRADING CO., LTD.,

8 Drapers Gardens, Throgmorton Avenue, London, E.C. 2.

AGENTS IN FRANCE, GERMANY, HOLLAND, ITALY, JAPAN, PALESTINE, SPAIN, SWITZERLAND, & U.S.A.



SANTONINE

BP. USP. J.P.

in original one and five Kilo packets for immediate delivery.

Stocks in London, Antwerp, Paris, Basle, Milan, Barcelona, and New York.

RUSSIAN CRUDE DRUGS

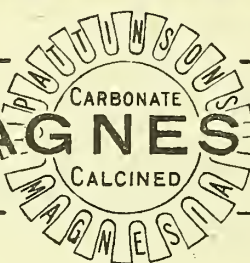
Stocks in London and Paris.

ON SALE
IN LOTS TO SUIT
PURCHASERS

Several Tons of Jujubes
and Pastilles.

MANUFACTURED BY

Blyton, Astley & Co.
MANCHESTER.

*Trade***MAGNESIA***Mark*

PATTINSON'S

MAGNESIA

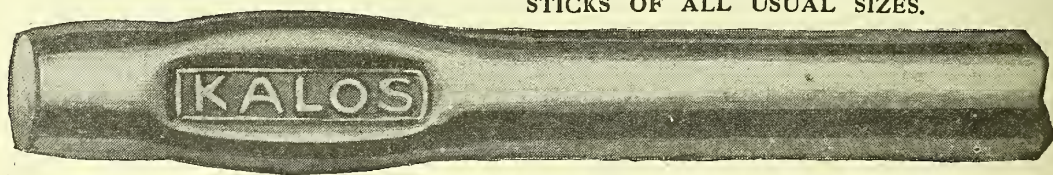
Carbonate, Calcined, Fluid

*The Washington Chemical Co., Ltd.,
Washington, Co. Durham, England.*

Telegrams: "Chemical, Washington Station." Telephone: 3788 Central, Newcastle-on-Tyne.

"KALOS" LIQUORICE JUICE

Supreme Quality—Reasonable Price
STICKS OF ALL USUAL SIZES.



In order to maintain the highest standard of Purity, samples of this Juice are periodically submitted to Mr. Ernest J. Parry, B.Sc., F.I.C., R.C.S., London, for analysis. Buyers may submit samples for analysis of any shipment they may receive at makers' expense.

The Wholesale PILL & TABLET HOUSE

**MODERN MACHINERY.
MODERATE PRICES.**

Private Formulæ Quoted in Any Quantity.

LIST OF STOCK FORMS NOW READY.

HOWARD LLOYD & CO. LTD., LEICESTER.

Russian Crude Drugs

Lycopodium, Licorice Root
Soap Root - &c. &c.

ALL-RUSSIAN CO-OPERATIVE SOCIETY, LTD.
ARCOS

SOVIET HOUSE - - 49 MOORGATE,
LONDON, E.C.3.

Telephone Nos. :
London Wall 6626/35 (10 lines).

Telegrams :
"Arcosarcos, Ave, London."

GOLD MEDALS:
Paris, 1889 and 1900,
GRAND PRIX:
Turin, 1911.

FERDINAND ROQUES, PARIS.

"ROQUES" ATROPINE
"ROQUES" COCAINE
"ROQUES" PILOCARPINE
"ROQUES" SPARTEINE

Manufacturer of Pure
Pharmaceutical Chemicals.

ESTABLISHED 1846.

OTHER SPECIALITIES:
Refined Camphor, Iodides, Iodoform, Iodethymol,
Bromides, Bromoform, Bismuth Salts.
CACODYLATES, METHYLARSENATES.

SOLE AGENTS FOR U.K.: **W. CHARITY & SONS, 37 Union Street, LONDON, S.E. 1.**

Telephone :
Hop 339.

(WHOLESALE ONLY)

Telegrams : "Charity London."
Codes : A B C, and LIEBER'S.

QUININE

QUINIDINE
CINCHONINE
CINCHONIDINE

and

SALTS

Sugar-coated Quinine Tablets and Pills.

Gelatine-coated Oval Pills.

**BANDOENG
JAVA**

BANDOENG QUININE FACTORIES

AMSTERDAM

De Wittenkade 48-50.

Telegrams : "Kininefabriek Bandoeng." Samples, prices and particulars on application. Telegrams : "Semadmy Amsterdam."

SOLE AGENTS for the UNITED KINGDOM : **R. W. GREEFF & CO., Ltd., Thames House, Queen Street Place, London, E.C.4.**
Telegrams : "Greeff, Cannon, London."



In the United States

E. FOUGERA & CO., Inc.

Est. 1849

is recognized by the drug trade as the means whereby the best of British and French medicinal and pharmaceutical preparations are placed at its disposal

BRITISH Manufacturers who contemplate placing their products on the American market should communicate with us. We have the necessary facilities plus a thorough knowledge and wide experience in merchandising medicinal and pharmaceutical preparations

CHEMICALS We solicit inquiries for chemical products indigenous to the United States; also your offerings on English pharmaceutical chemicals, industrial and agricultural products

London Representatives:
H. B. SLEEMAN & CO. Ltd.
84 Leadenhall St., E.C. 3.

E. FOUGERA & CO., Inc.
90-92 Beekman Street, New York City

[3]

Telephone: MINORIES 2652.

Codes: Bentley's: A B C, 5th Ed.

Tel. Add.: "CELAITCH, BILGATE, LONDON."
Cable Add.: "CELAITCH, LONDON."

CHARLES L. HUISKING, LTD.

74 Great Tower Street, LONDON, E.C. 3.

**PHARMACEUTICAL CHEMICALS, DRUGS,
ROOTS, HERBS, LEAVES, etc.**

Representing in England the following—

"ORANJE," LTD., Amsterdam
A. OULMANN & CO., Leghorn

ALF. GAUSSEN, Nimes, France
PABLO GROSSMAN, Mexico City
A. E. BEEBE & SONS, Niles, Michigan

J. L. P. SPOHR, Lugano, Switzerland

- Essential Oils, Synthetics, etc.
- Olive Oil, Orris Root, Juniper Berries, Italian Produce
- Roots, Herbs and Leaves
- Sarsae, Jalap, Mexican Produce
- Wayne County Peppermint Oil, Natural and Redistilled
- Extract of Male Fern Root

AGENTS FOR AMERICAN FIRMS.

Let us have your Enquiries.

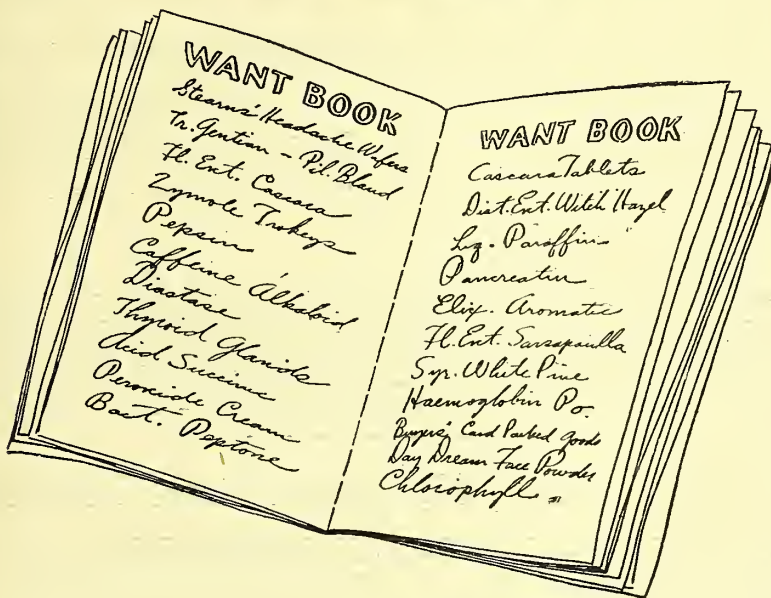
American
Correspondents

—CHAS. L. HUISKING, Inc., 5 Platt Street,

Cable Add.: "CELAITCH NEW YORK."
Codes: A B C, 5th Ed.; Bentley's Improved.

NEW YORK CITY, U.S.A.

**STEARNS
QUALITY**
FOUNDED
1855



Stearns Can Supply All of These— and upwards of 5,000 other lines

When you look in your "Want Book," think of Frederick Stearns & Co., and our 66 years in manufacturing quality pharmaceuticals, digestive ferments, packed goods, toilet preparations, perfumery, essences—a comprehensive line of nearly 5,000 products.

You can always make up a sufficient indent for Stearns goods. If the "Want Book" calls for some of the Stearns Specialties, such as Stearns' Headache Wafers (Shac), Kasagra, Stearns' Tonic (Wine), for example—no need to wait until you require a complete assortment of our lines. Your indent can be made large enough for a bill of lading by including staple items for the dispensing department.

Special formula goods are also an important feature of our business. Let us quote.

Quality Courtesy Satisfaction Prompt Service

Frederick Stearns & Company
Manufacturing Chemists
Detroit, U. S. A.

Branch Laboratories: Windsor, Ont., Canada, and Sydney, Australia
Branch Offices: New York, San Francisco, Calcutta, Cape Town

BISHOP'S SOLUBLE ASPIRIN IN TABLETS

Registered Name :

LITMOPYRINE

Each tablet contains 5 grains of Lithium Acetyl-Salicylate.

LITMOPYRINE TABLETSIn bottles of 40 at **22/6** per doz. subj.
M.R., **2/6**In bottles of 100 at **45/-** per doz. subj.
M.R., **5/-****LITMOPYRINE** is also supplied as a
POWDER

for dispensing, and as a

GRANULAR EFFERVESCENT

5 grains in 60 grains.

*And in the following combinations :***LITMOPYRINE and CAFFEINE in TABLET FORM and
GRANULAR EFFERVESCENT LITMOPYRINE, grains 5,
with CAFFEINE ALKALOID, grain $\frac{1}{2}$ in 60 grains.****ALFRED BISHOP, LTD., 48, Spelman Street, LONDON, E.1.****PERTUSSIN**(Ext. Thymol Saccharat) Taeschner.
For **WHOOPIING COUGH, Asthma, Catarrh
of the Larynx, and BRONCHIAL CATARRH.****RECORDSAN**Dr. Gallus Bauer (Heart Specialist), Bad Nauheim.
(Ungt. Menthol, Nicotin, Camphor Monobrom, Castor,
Valerian, Crathaeg Oxyacanth, Spirit Sinapis Comp.)
A new heart sedative for external use.Sole Agents: **DOUCH LTD.,**

9a OLD BROAD ST., and 8 UNION COURT, LONDON, E.C.

REAL SILVER LEAF

As supplied for many years to the leading Houses for Pills, Cachous, &c.

We also supply

GOLD LEAF AND GOLD POWDERS

WHOLESALE ONLY.

E. WINTER & CO., LTD.,

Head Office: 63 Cheapside, London, E.C. 4. Telephone: Central 685

**ALL CHEMISTS
SHOULD STOCK****ABDINE****THE GOLD MEDAL FRUIT DRINK.**Quick Seller. Big Profits. Over 40 years' Reputation.
"Abdine" is the most popular Health Drink, superior to all Mineral
Waters. The Original and only genuine Fruit Drink.

Reduced Price List can be had on application.

DUNCAN MCGILSHAN, LTD., ABDINE WORKS, WESTFIELD ROAD, EDINBURGH.**TUCKER & CROSS****15 ST. MARY AXE,
LONDON, E.C.3.**

Telephone: AVENUE 2569.

Telegrams: "GLUCOSE LONDON."

WE SPECIALISE IN AND ARE DIRECT IMPORTERS OF

CASTOR OIL**FRENCH AND CONTINENTAL
STOCKS IN LONDON.**PHARMACEUTICAL { Barrels 3½ cwt.
Cases 2x20 Kilo Tins
1st PRESSINGS } Barrels 3½ cwt.
2nd PRESSINGS }QUOTATIONS { EX WHARF LONDON.
C.I.F. ANY PORT.
F.O.B. CONTINENT.**The House for French Pharmaceutical Preparations**Telegrams—
"Ampsalvas London."**THE ANGLO-FRENCH DRUG CO., Ltd.**Telephone—
Museum 4029.**238a Gray's Inn Road, LONDON, W.C. 1.**

Branches—PARIS, BRUSSELS, NEW YORK, MONTREAL, CAPE TOWN, SYDNEY, BOMBAY, CALCUTTA.

ALL CHEMISTS

ARE INVITED
TO STOCK

Zotal Liniment

IT IS A LINIMENT OF PROVED
EFFICIENCY, a great favourite in
every household, and is a remarkably
QUICK SELLER.

Wholesale Price **10/6** Dozen.

Protected by the P.A.T.A.

RETAILS AT THE
POPULAR PRICE *of* **1/3** EACH
BOTTLE

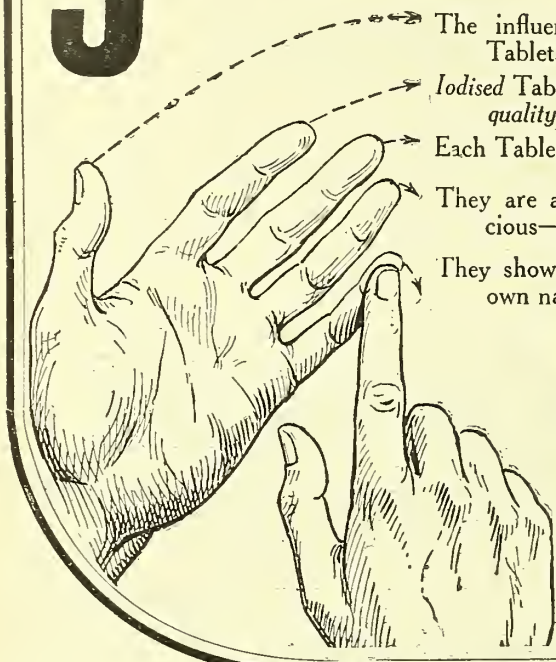
Giving a Profit of 45%

Burgoyne, Burbidges & Co., Ltd

EAST HAM.....LONDON, E.

5 GOOD REASONS FOR STOCKING

IODISED THROAT TABLETS—M. & J.



The influenza and "sore throat" season calls for Throat Tablets!

Iodised Tablets are popular, and the M. and J. Brand guarantees quality!

Each Tablet contains a *really effective* dose of iodine.

They are attractively presented, and are palatable and efficacious—containing benzoic acid, cinnamon, aniseed, etc.

They show a wide margin of profit—gross at 6/- per doz.—own name, if preferred. Single dozens at 7/-.

IODISED THROAT TABLETS

M. & J.

Have you had particulars of our "Iodex" Special Offer, and our reduced prices for Aspirin Tablets? If not, please write to

MENLEY & JAMES, Ltd., 64, Hatton Garden, London, E.C.1.

Guaranteed Relief — or MONEY BACK ★



For Rheumatism, Lumbago, Neuritis, Gout, Sciatica, and all other Uric Acid Complaints.

A Nationally Advertised Line that pays Retailers 25% on a steady increasing sale. Send now for Special First Stock Parcel: 1 doz. 3/- size, 1 doz. 5/- size, ½ doz. 12/- size. Any quantity Carriage Paid. Window Display Terms on Application. All Wholesalers stock PHYSIKURATE.

On P.A.T.A. List

As advertised, any dissatisfied customer will receive money back on applying direct—this saves you from trouble and ensures your recommendation and profit.

PHYSIKURATE, Ltd., 92a Upper Clapton Road, LONDON, E.5.

★ "WORKS WHILE YOU SLEEP"

HARROGATE TABLET COMPANY'S HELPFUL TALKS to CHEMISTS

Our Dr. Stork's Worm Cakes are Unique

CHILDREN like to unwrap the silver covering, are charmed with the laughing baby face, enjoy eating the delicious chocolate.

PARENTS find them efficacious and economical, have no difficulty in administering them, can take them themselves with beneficial results.

CHEMISTS see children gratified!
see parents satisfied!!
see profits multiplied!!!

therefore they STOCK THEM.

Packed in beautifully decorated tins of 1½ gross.

Price 10/- per gross. Retail at 1½d. each.

HARROGATE TABLET CO., Ltd.
CHATSWORTH GROVE, HARROGATE.

"QUINPHOS"

(Regd.)

THE GREAT TONIC

BONUS ORDER No. 1.

ONES ORDER NO. 1.				Sells for	
		s.	d.	s.	d.
1 doz. 1/3	"QUINPHOS"	11	6	15	0
1/2	" 3/-	13	9	18	0
1/4	" 1/3	" Bonus		3	9
		£1	5 3	£1	16 9
5% 1 month		1	3		
		£1	4 0		

Outlay 24/- Profit 12/9

Advertising Matter for Window Display included.

Sole Makers—

THOMPSON & CAPPER, LTD.
Manesty Buildings, College Lane, LIVERPOOL.



BEWARE OF A COLD

IT IS AN INSIDIOUS THING AND
SHOULD BE TACKLED AT ONCE
NEGLECTED COLDS LEAD TO
DANGEROUS DISEASES.

THEY LOWER THE VITALITY
AND INVITE ILLNESS.

INSURE AGAINST ALL DANGER
WITH

"QUINPHOS"
THE GREAT TONIC.

BEECHAM'S PILLS

WHOLESALE PRICES.

Beecham's Pills:

1s. 3d. size		10s. 6d. per doz. net.
3s. 0d. "		26s. 6d. " "
5s. 0d. new size, contains double		50s. 0d. " "
the quantity of 2s. box,		

Beecham's Cough Pills:

1s. 3d. size		10s. 6d. per doz. net.
3s. 0d. "		26s. 6d. " "

Minimum quantity £5 value. Packages FREE. Carriage PAID. CASH WITH ORDER.

Cheques to be made payable to THOMAS BEECHAM, and crossed "Parr's Bank, Ltd., St. Helens."



Fellows' Syrup
of the
Hypophosphites

THE STANDARD TONIC FOR OVER HALF A CENTURY

Prescribed by Physicians all over the world, Fellows' Syrup of the Hypophosphites, in addition to being in constant and increasing demand, adds distinction to a chemist's show window. It is a symbol of progressiveness and reliability

Fellows' Laxative Tablets
(*"The Tablet with a pedigree"*)

In two sizes, namely:

LARGE BOTTLES (containing 100 tablets)	SMALL BOTTLES (containing 40 tablets)
--	---

AT ALL FIRST-CLASS CHEMISTS

FELLOWS MEDICAL MANUFACTURING CO., Inc.
26 Christopher Street, New York

Dr. Bengué's Ethyl Chloride for Local and General Anaesthesia in Glass and Metal tubes.

Large selection of tubes.

Anestile for Local Anaesthesia.
Narcotile for General Anaesthesia.
Methyl Chloride.

Ask for Special Terms and Showcards for Dr. Bengué's Balsam.

Dr. BENGUÉ & CO., MANUFACTURING CHEMISTS,
52 Charlotte St., LONDON, W.1.

PLANO

The best emolient tablet for rough skin and chapped hands.
Sells well everywhere at the popular price

3d.

Neatly wrapped and cartoned, ready to hand over the counter. It looks smart and is very effective.

Trade prices—6 dozen, 11/6. 12 dozen, 22/-
Carriage paid. 13 to the dozen for cash with order.

Discount on Orders of 20/—2½%, £5—5%, £10—7½%.

MILNER'S CHEMICAL CO.,
Robson Street, LIVERPOOL.

THE OLDEST and THE BEST "DUCA DI CORIGLIANO" LICORICE JUICE

PREPARED BY THE PROPRIETOR OF THE CALABRIAN LICORICE ESTATES (ITALY) NOTED for CONSISTENT PURITY AND PALATABILITY

THERE IS NONE BETTER

Stocks in LONDON

Sole Agent:

Albert E. FERGUSON, 1 Jewry Street, LONDON, E.C.3

IDOZAN

Doctors are now daily finding that this new Iron preparation fully justifies all we claim for it, viz., that by reason of its large percentage of pure assimilable Iron Anæmic conditions rapidly respond, and there is considerable improvement in even the worst cases within a week. It does not constipate; does not harm the teeth; does not cause gastric irritation. You can safely recommend it. Retailed in one size only, 3-oz. bottles, price 5/-.



Write for further particulars.

CHAS. ZIMMERMANN & CO. (Chem.), LTD. Ferrosan Dept.
9-10, ST. MARY-AT-HILL, LONDON, E.C.3.

Don't Forget to stock these two remedies

"KRENOMAR"

(REGD.)

In the case of Toothache, In cases of Ringworm, Alopecia,
the Box with the RED Seal. &c., the box with the BLUE Seal.

Sole Proprietors & Manufacturers

The PROPRIETARY CURES (Parent) Co. LTD.

Registered Office:

85 Albert Road, MIDDLESBROUGH.

Selling price in each case 1/1½ per box.

SPECIAL TERMS to the TRADE Opinion of a Chemist: "I have sold more than I thought I would."

NURSE HARVEY'S MIXTURE

A safe, simple, and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessities from him. Moreover, the retailer has a profitable return on a quick turnover.

For Direct Terms apply to—

OSCAR SCRUTON & CO., YORK



"Dr Grip"

GRIPS

First-aid Pastilles.

All the leading London and Provincial daily and weekly newspapers will carry the "Grips" message; judicious use of "Grips" tins, and the window material we shall place at your disposal, will ensure you your share of this business.

Come in on this proposition now!

Let us send you details of this "Big Push" together with full information of how it will benefit you.

Distributors to the Wholesale and Retail Chemist Trades.

Thos. Christy & Co.

4-12 Old Swan Lane,
LONDON, E.C. 4.

THE increasing use of Antiphlogistine for Veterinary purposes has made necessary the introduction of a special

VETERINARY ANTIPHLOGISTINE

Veterinary Antiphlogistine will be extensively advertised to Veterinary Surgeons, Trainers, Breeders, and to everyone interested in the treatment of inflammatory diseases in animals. The favourable reputation Antiphlogistine has won for itself ensures a favourable reception for Veterinary Antiphlogistine and the demand for it is assured.

VETERINARY ANTIPHLOGISTINE is made in two sizes:

Size.	M.W.P.	Size.	M.W.P.
17½ OZS.	- 33/-	5 lbs.	- 109/6

For quantity terms for Antiphlogistine and Veterinary Antiphlogistine write to the
SOLE AGENT:

J. F. MURPHY, 41 St. Ann's Rd., London, E.3

MEAD'S NEW SERVICE for Infant Feeding

now being introduced to
the Medical Profession.

You will receive enquiries and prescriptions for

MEAD'S DEXTRI-MALTOSE

Nos. 1, 2, 3.

Supplies can be obtained from
all Wholesalers or the

American Drug Supply Co. Ltd.

6 Northumberland Avenue,
London, W.C.2.

TESTOGAN

FOR MEN.

THELYGAN

FOR WOMEN.

A Proven Efficient Remedy
(Formula of Dr. Iwan Bloch)

INDICATED IN

**Impotence and Insufficiency
of the Hormones.**

YOHIMBIN TABLETS AND AMPOULES
BISMOLAN SUPPOSITORIES AND OINT-
MENT. For the Treatment of Hemorrhoids.

For literature and other information apply to
CAVENDISH CHEMICAL CORPORATION,
175 Piccadilly, London, W.1.

BUTLER & CRISPE, English Distributors.
MAY, ROBERTS & CO., Ltd., Irish Distributors,
16 Westmoreland Street, Dublin.

0,000,000
our advertisements
y week—many of
n your customers.
y time you
a sale you
50%

P.A.T.A. TERMS.

1/3 size 12/- doz.
2/6 size 24/- doz.
10% on £5 orders, and
an extra 2½% C.O.D.
½-doz. 1/3 size Free
for Window
Display.



GALLOWAY
COUGH SYRUP
Sells like One O'Clock

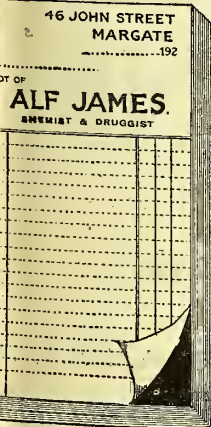
OVER 50% PROFIT ON WINDOW SHOW TERMS.

P. H. GALLOWAY, Ltd., *Qualified Chemists,* 154-162 Walworth Road, LONDON, S.E.17.
SOLE AGENTS for JULES FRERES, Ltd., Proprietors of Royal Seal Pomade.
Scottish Agents—T. J. McLAUGHLAN & Co., 35 Blythswood Drive, GLASGOW, W.

You never know

what may happen by not keeping a duplicate copy of all your correspondence. It's so easy to do this with the 'Charterhouse' Duplicate Order or Memo Book which is made only with 100 printed tear-outs 8 by 4½, and 100 plain duplicates 1st leaf, good white bank paper, printed any ordinary heading, and perforated. 2nd leaf, white paper, plain and fast. Wired binding, stout Kraft flush paper covers; one sheet of carbon per book.

The "Charterhouse"
Duplicate Order or Memo Book



Saves time, money and trouble. Each sheet is numbered so as to give an accurate record.

Prices per Book:

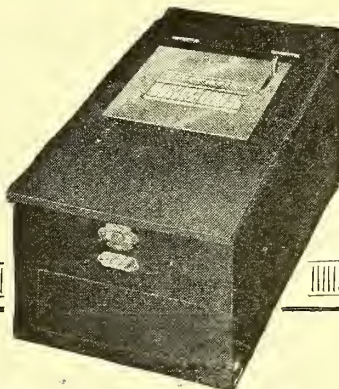
12 books ...	1/9
24 " ...	1/8
36 " ...	1/7
48 " ...	1/6
72 " ...	1/5
144 " ...	1/4

Numbering in duplicate, 3d. extra per book.
These books can also be had with Cash Lines at same prices.

J.C. KING & CO.

42-60 Goswell Rd
LONDON, E.C.1.

Price,
70/-
Net.



The
NATIONAL
AUTOGRAPHIC TILL

combines the workmanship and knowledge gained during our

40 Years' Experience

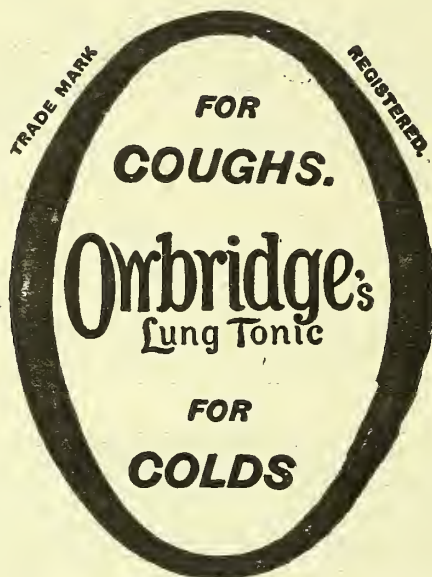
Size: 8½" high, 10" wide, 19" long.
Writing space 4½" wide. Record roll ruled for four classes of transactions.

Fully Guaranteed by The N.C.R. Co.

Write for further details:

The National Cash Register Co., Ltd.
225 Tottenham Court Rd., London, W.1.

Minimum Retail Price—FACE VALUE.



W. T. Owbridge, Ltd., The Laboratory, Hull.

POISONS and PHARMACY ACT.

Privy Council Order, Jan. 1, 1921.

DANGEROUS DRUGS ACT, 1920.

Regulations of May 20, 1921. (Operative Sept. 1, 1921.)

Dr. J. Collis Browne's
CHLORODYNE

is not affected by above Order or Regulations.

It does not require purchaser's signature.

Proprietors: J. T. DAVENPORT, Ltd., 117 Union Street, S.E.1.

A Sure Profit of 20%.

Urodonal

Costs you 48/- & 115/2½ per doz.

Sells at 5/- & 12/-

It is backed by an extensive advertising campaign. Urodonal is in every home—it has a constant demand. Urodonal stands for clear profits—are you getting your share of these ?

*Jubol, Globéol, Gyraldose, Pagéol, Fan-
dorine, Sinubérase, Filudine, Jubolitan,
Jubolitoires, Vamianine, Dialirol,
Linycol, Rhino-Fogyl, Fogyl, Romanyl,*

*Poral, Poralin, Noctyl, Rucoval,
Furosyl, Succine, Corivore - Plaster.
Coliampoules: Vamiol, Bokanol,
Gamostyl, Plasmocol, Dosarter, Pyran, &c.*

From—Sangers ; May, Roberts ; Butler & Crispe ; Wilcox, Jozeau & Co. ; and all Wholesalers.

Write for Price List and Terms to—

M. E. BOUSSARD, 7 Paddington Street, LONDON, W.1.

Sole Agent for Chatelain's Laboratories, Paris.

DUTCH
Sugar
of Milk.
"THE BEST"
HOLLANDSCHE
MELKSUIKERFABRIEK
Amsterdam.

100% Satisfaction

Sell an honest remedy which you *know* will give satisfaction and bring repeat orders as well as recommendations.

More than 40,000 letters of praise in two years bear testimony to its efficiency.

It is 100% satisfaction every time with

HOOD'S MEDICINE

Liquid & Tablet.

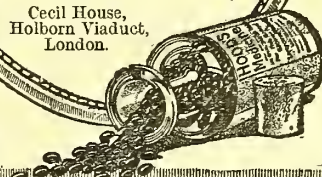
2/6 5/- 8/6

P.A.T.A. Profit.

Packed in glass bottles.

C. I. HOOD & CO., LTD.,

Cecil House,
Holborn Viaduct,
London.



PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopoeia.

(Wholesale only.)

Samples from Head Office, Thomas Street, DUBLIN, or London Office, 43 Great Tower Street, LONDON, E.C.3.

FREDK. FINK & CO.,

10 & 11 MINCING LANE, LONDON, E.C.3.

SPECIALITIES.—Gums Arabic and Tragacanth as Imported or finely powdered.

XMAS WINDOW TICKETS & WINDOW POSTERS



produced in Artistic & Refined Colorings
for advertising Christmas Presents

List No C.D.675. Showing 100 Designs Free
DUDLEY & COY HOLLOWAY RD LONDON N.

B O X E S	BRITISH MADE, ROUND AND SQUARE	B O X E S
	CARDBOARD BOXES	
	for	
	PILLS, POWDERS, SOAP, OINTMENT, BOTTLES & CHEMISTS' ADJUNCTS.	
	Estd. 1850. Wholesale & Export only. Phone : 2505 Royal.	
JAMES AUSTIN Ltd. 32 GREAT GEORGE SQUARE, LIVERPOOL.		

PLAIN AND DECORATED TIN BOXES

for OINTMENTS, VASELINE, Etc.

Write for our Quotations before placing orders

THE HEATHSIDE METAL STAMPING CO.
Stockport Road, CHEADLE, Cheshire.

BOOKS FOR PHARMACISTS.

Send us a postal card and we will send you a 32 page catalogue of professional and business books for pharmacists, and a copy of

"THE SPATULA"

an illustrated monthly magazine for druggists, full of American snap and enterprise.

THE SPATULA, BOSTON 14, MASS., U.S.A.

MANCHESTER SCHOOL OF PHARMACY

Founded 292 Oxford Road [1882]

Principal : HARRY BRINDLE, B.Sc. Hons. (Lond.), Ph.C., A.I.C., F.C.S.

Revision Courses are held in all subjects for the Qualifying Examination, and commence in January.

The next Full Course commences in April next.

Particulars from the Principal.

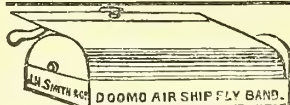
CIGARS for XMAS

HAVANA AND BRITISH IN ALL PACKINGS.

Write to The London Dealers for Wholesale Price
List of London's lowest prices. Enclosures sent
to any Wholesale House.

SADLER & MOORE, Spital Square,
Bishopsgate, E. 1

DOOMO AIRSHIP FLY BAND



Write for quotations

A wide, long band,
sticky on both sides.

SMITH & CO., Doomo Works, NEWARK

'KEEP THE PHOTO FIRES BURNING'

by pushing the sale of enlargements. All work
is executed by the Kodak Projection Enlargers,
Lantern Slides and Transparencies finished in a
few days. Show-Cards and Price Lists on
application.

"FORBEST LIMITED," 171a Brook St., BROUGHTY FERRY

To CHEMISTS and DRUG STORES. IT PAYS to sell
FARMER'S "BAITED"

PHOSPHOR PASTE

Made from an improved formula. It is the BEST RAT and MOUSE
POISON IN THE WORLD.
Jars 4d., 7d., and 1s. KINDLY ORDER from SUNDRY HOUSES.
ONE USER recommends to another.

Export Agents: **AYRTON SAUNDER & CO., LTD.,** Duke Street,
Liverpool.

Manufacturers: **F. FARMER & CO.,** HOMERTON, LONDON.

GILLETTE BLADES

30/6 PER BOX. 5 at 30/-
POST PAID. 10 at 29/6

"VALET" Carton for 36/-
7 O'CLOCK, gross for 36/-
EVER-READY " " 30/-
CLEMAK, 3 doz. pkt. " 9/9

CASH WITH ORDER
£3 Orders Post Paid

Hollow-ground Razors 15/-, 18/-, 24/-, 30/- doz.
Vest P. Razors, from 6/6 doz. Knives from 4/- doz.
Gillette Brownie 3/6 ea. Ever-Ready Razors 4/-
Auto-Strip Sets, 6/3. Valet C. Model 4/-
Shaving Soaps 8/6 doz. Scissors 7/6, 12/-, 15/- doz.
Petrol (G) Lighter from 1/6 doz. Assortments
for 3/-, 5/-. Flints for lighters, &c., 3/- gross pkt.

LOUIS J. STAMBOIS (Dept. C), 34 Call Lane, Leeds, [15]

TOOTH PASTES IN TRIANGLE CARTONS

GET TO KNOW THEM
and MAKE MONEY

THOS. CHRISTY & CO., 4-12 Old Swan Lane, E.C.4

Probably the best value yet seen—new
type of carton beautifully gotten up
and displayed, carrying a superline
line of popular Dental Creams. Gives
an excellent profit, and anyone start-
ing the trade in the district practically
takes the lot.

Ask for sample and leaflet, and
learn about this 50% profit line.

BOTTLES.

G. VAN DER HOEK, 324/5 Bank Chambers, 329 High Holborn, LONDON, W.C.1:

I solicit your enquiries for MEDICAL FLATS in all sizes, plain and graduated,
MEXICANS, POISONS, KALIS, LIMES, VIALS, CANNONS, OVALS,
BRILLIANTINES, in all shapes, SCREW JARS, TABLET BOTTLES,
etc. etc. All bottles used in perfumery and chemist trades. Special shapes made
Wholesale quantities only.

Clarke's Blood Mixture & Other Preparations

NOTICE.

Clarke's Blood Mixture and other Preparations.

33 $\frac{1}{3}$ % on cost to our DISTRIBUTORS and FREE CASES.
Since July 1st, 1922, all orders amounting to gross value (£16 4s.) have been sent out in FREE CASES; this is a great advantage to our Customers who order direct, saving Carriage on returned empties, besides supplying Cases Free of Cost. Carriage paid upon orders amounting to £100.

Price List and full particulars sent on receipt of Postcard.

Sole Proprietors:—

THE LINCOLN & MIDLAND COUNTIES DRUG COMPANY, LIMITED
Park Street, LINCOLN.

Generous Profits

are assured to the Pharmacist
who stocks these popular products.

Kay's 'LINSEED COMPOUND'
Compound Essence of Linseed

Kay's MOUNTAIN FLAX PILLS
'Linum Catharticum'

'Kay's TIC PILLS'

'Kay's THROAT LOZENGES'

Purchased in convenient quantities from any Wholesaler they carry a clear protected (P.A.T.A.) 25% on turnover (33 $\frac{1}{3}$ % on cost). Their real merit—backed by shrewd advertising—ensures a steady ever-growing sale.

Sole Proprietors:

KAY BROTHERS LTD.
STOCKPORT



THE GREAT NERVE FOOD AND FLESH BUILDER.

IRVONA is obtainable from all the usual wholesale houses, or direct, at the following prices—3/- size, 27/- per dozen.

15/- „ 135/- „ „

“IRVOLAX” (the safe aperient).

1/3 size 12/- per doz.

3/- „ (four times the quantity) 27/- „

MOLVENE

(the safe flesh reducer).

3/- packet 29/- per doz.

Terms Net 30 days, subject to usual trade references.
For orders under 27/- in value cash with order.

P. J. WILLIAMS

Chiswell Chambers, 27 Finsbury Street,
LONDON - - E.C. 2

Petroleum Jelly

White, Yellow, Amber,
& Ruby Red, for all
Pharmaceutical and
Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.
LIVERPOOL · LONDON · MANCHESTER · LEEDS.

PETROLEUM JELLY.

Gough, Kidston & Co.

*Chemical Manufacturers,
Tanning & Dyewood Materials & Extracts,
Gum & Wax Merchants,*

Tel. No.:
Minorities 2666 and 2667.

Tel. Add.:
"Kidstonism,
Bilgate, London."

43/45 Gt. Tower Street, London, E.C. 3. Tel. No.: Hop 2023.

WORKS:
BERMONDSEY.

ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE PRODUCED
IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE CO.
Carnwath Road, Fulham, London, S.W.6.

Telephone: Putney 42.

WHO INVITE ENQUIRIES. Telegrams: "Batapo, Walgreen, London."

SUTTON'S

(A good name is more than riches.)



CLOUDY AMMONIA

goes one better than ordinary ammonia in quality—and profit. Recommend it and reap that benefit.

We do not put the label on until the quality is there.

All experienced buyers know that the name of Sutton stands for trustworthiness, uniform high quality, and absolute purity.

Please send for terms:

G.F. SUTTON, SONS & CO.
Osborne Works, Brandon Road,
KING'S CROSS, LONDON, N. 7

WHITE

WHITE and Half-White Oils for use in manufacture of Brilliantine, Pomades, Toilet Preparations, etc. These oils can also be supplied in any shade of Green, Yellow, Golden or Red.

Prices on request.

STERNS LTD.

80 Royal London House,
Finsbury Square,
London, E.C. 2.

OILS

SALVO PETROLIA

The Perfection of Petroleum Jelly

MANUFACTURED SOLELY BY

THE DEE OIL COMPANY, Ltd.
DELTA WORKS, BOOTLE, LIVERPOOL.

Packed in barrels, kegs and smaller packages according to requirements.

Other Grades

PETROLEUM JELLIES, WHITE BASES, ETC.

Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

Phone: 186 Bootle.

Wires: "Cestrian Liverpool"

WHEN YOU SELL SHAVING SOAP

introduce "Watts" Safety Razor Blades, the super British Blade at 3/6 per dozen, now packed in the new convenient nickel-plated containers.

12 Perfect Blades
in every
doz.



They have a super keenness that ensures perfect service and makes them different from and better than all others.

A user in Gibraltar writes: "Must write to say how splendid your Blades are. Can't understand people buying foreign blades when such as yours are obtainable."

Retailer's Profit 50% on cost.

JOHN WATTS,
Dept. 3, Lambert Works,
SHEFFIELD.

London:
24 Redcross St., E.C. 1.
Established over 150 years.

BRITISH OWNED.

SLACK & BROWNLOW,
Town Mills, Tonbridge, Kent.

"Brownlow" Filter

FILTRATION THROUGH CYLINDERS OF KIESELGUHR

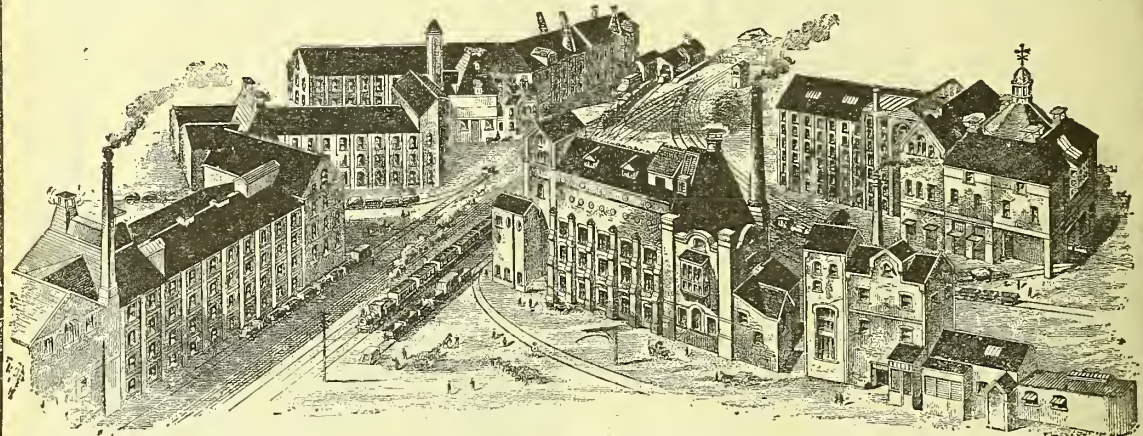
Crystal Pure Water.
Free from Disease Germs.



AGENTS WANTED EVERYWHERE.
Catalogue on Application.

MALT EXT. WITH COD LIVER OIL

Direct from the Actual Manufacturers.



THE BRITISH DIAMALT COMPANY'S WORKS AT SAWBRIDGEWORTH.

City Office—9 Holborn Viaduct, London, E.C. Northern Office—Arcade Bldgs., 85 Lord St., Liverpool

Heinr. Meyer & Co.'s

(Christiania)

FINEST LOFODEN

NON-FREEZING, NEW SEASON'S

Cod Liver Oil

*Supplied for the past 20 Years to the
most important Buyers on this Market.*

FOR LOWEST QUOTATIONS APPLY TO OUR
SOLE AGENTS

STEPHENS BROTHERS & CO.

Offices: 13a Finsbury Square, London, E.C.2.

Warehouse: 3 & 4 Mallow Street, London, E.C.1.

Telegraphic Address: "Glycerine, Finsquare, London."
Telephone: Clerkenwell 2383.

Dr. DE JONGH'S

LIGHT BROWN

COD LIVER OIL

IN IMPERIAL HALF-PINTS, 4/-

ANSAR, HARFORD & CO., LTD.

182 Gray's Inn Road - - LONDON

SOLE CONSIGNEES.



Kellogg's

Krumbled Bran is a health necessity and should be eaten daily. It naturally and permanently relieves constipation.

Prices and samples from.—

S. D. SIMOND & CO., LTD.,
10 MONUMENT ST., LONDON, E.C.3, ENGLAND.

"Less than Pre-War Prices."**"TOOTH'S"
LIEBIG'S
EXTRACT of MEAT**

As used in the Military and other Hospitals.

1 oz. Jars	6/6 per doz.
2 " "	11/3 " "
4 " "	20/- " "
8 " "	38/- " "
16 " "	70/- " "
5 lb. Tins	28/- each.

Samples and Discounts on application.

"TOOTH'S" Liebig's Extract of Meat is the oldest brand of Meat Extract on the market, having been introduced in 1865. It can always be relied upon for the highest standard of quality, whilst its agreeable flavour and pleasant aroma added to its easy digestibility render it specially suitable for invalids. T.L.E.M. is stocked by the leading wholesalers.

Tooth's Extract of Meat Co.

23 Leman Street, London, E.

**BRAND'S
ESSENCE**

of Beef, Mutton or Chicken consists solely of the juice of the finest meats, prepared with the greatest care under the most hygienic conditions.

Essential in the Sick Room.

Sold by all Chemists and Stores.

BRAND & CO., LTD.

Mayfair Works, Vauxhall, LONDON, S.W. 8.

**A Message from
Glaxo**

SO many pharmacists have written to us—expressing the hope that we shall soon be able to protect the price of Glaxo, and ensure the pharmacist a reasonable profit—that we take this opportunity of stating our firm intention not only to protect the price of Glaxo, but also to guarantee the pharmacist a margin of not less than twenty per cent. on every tin he sells.

We also intend at intervals to offer to pharmacists bonus terms, the conditions of which will be disclosed later. These bonus offers will be confined to the drug trade; and, as authorised wholesale distributors of Glaxo will keep us advised where every tin of Glaxo is sent, we shall not only effect the protection of the price, but the whole of the Glaxo business will gradually be directed to the pharmacist.

Supplies of Glaxo will only be available henceforth to wholesale dealers who agree to give us the necessary information to ensure the Glaxo Price Maintenance Scheme being enforced, and to withhold supplies from "cutters."

Any pharmacist who may experience difficulty in obtaining Glaxo through his usual source of supply need only communicate with us, and arrangements will at once be made to supply him on best terms through one of the Authorised Glaxo Distributors; or, if necessary, we shall be prepared to despatch goods direct.

Address all Communications to:

THE SALES MANAGER,
GLAXO HOUSE, 56, OSNABURGH STREET,
LONDON, N.W.1.



Saint-Raphael

**Tonic, Restorative,
Digestive Wine.**

**Known throughout the World,
and prescribed in all cases of
ANÆMIA, DEBILITY, and CON-
VALESCENCE, to Young Women,
Children and the Aged.**

DOSE : One wine-glass after the
two principal meals.

Recommended by—
PROF. BOUCHARDAT, Professor of
Hygiene, Paris Faculty of Medicine.
DR. MACNAUGHTON JONES, London,
England.

"For more than thirty years St. Raphaël Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure tonic, by eminent physicians, such as Magendie, Ros on Chomel, Velpeau, Requin, Monneret, Trousseau, Grisolles, Laënnec, &c."—*Union Médicale*, May 8 and June 12, 1873.

"The 'Vin de St. Raphaël' is often used for ladies nursing their own children; it is preferable to stout, which creates an unhealthy fat."—*The Lancet*, London, England.

"St. Raphaël Wine is most precious in all cases where it is necessary to give tone to the system, without effort or shock."—Dr. C. DES BARRES.

Cie du VIN SAINT RAPHAEL, Valence, Drome,
FRANCE.

**To be obtained from all
Wholesale Druggists.**

THE WORLD'S BEST HONEY

NEW ZEALAND "IMPERIAL BEE."

THE FINEST QUALITY THAT BEES PRODUCE.

Cases 48×1½'s Monopots ..	6/9 per doz.	carriage paid
" 48×1's ..	12/3	" "
" 48×½'s Screw-top Glass Jars	8/3	" "
" 48×1's ..	14/9	" "
" 18×1¼'s Glass Toby Jugs ..	18/9	" "
" 30×1's .. Tumblers	13/9	" "

Quotations for bulk (cases 2/60 lb. tins) all grades,
on application to the sole European Agents :

A. J. MILLS & CO., Ltd.

Produce and Canned Goods Department,

14 TOOLEY ST., LONDON, S.E.1.

Telegrams :
"Millanoney, Boroh,
London."

Telephones :
Hop 6444, 3664, 5443
(9 lines)

**Special Terms to Wholesalers and
larger buyers.**

PLEASE ORDER NOW
AND APPLY FOR SPECIAL
TERMS FOR WINDOW
DISPLAY.

NEWBALL & MASON, Nottingham.

For the Winter Wine Essence Trade
—here is a line that is popularly
priced, and gives a good profit.

THE 'CASTLE' WINE ESSENCE



Seven Flavours—all true to name.

It comes to you from a house that is widely known for the high-grade quality of its goods. And because of this, you will have every confidence in recommending "Castle" Wine Essence to your Customers.

The popular price of 9d. per bottle brings it within the reach of all. Each bottle gives ONE GALLON of delightful wine—and the choice of SEVEN flavours provides your customers with a variety that enhances the selling value.

Throughout the season you will find "Castle" Wine Essence a ready seller. It speedily becomes a line always in demand—and helps your business along.

**Send your Order now—
and be ready for XMAS.**

WILKINSON & SIMPSON LTD.

Manufacturing Chemists, NEWCASTLE-ON-TYNE.

SEASONABLE LINES

BEEF & MALT WINE

(Wine Licence required)

Prices : Small Size (12 to Gallon) **26/-** doz.
Large Size (6 to Gallon) **38/-** doz.

BEEF & MALT WINE

WITH QUININE

(Can be sold by Chemists without Licence)

Prices : Small Size (12 to Gallon) **28/-** doz.
Large Size (6 to Gallon) **42/-** doz.

We import the Wine specially for the manufacture of this Beef and Malt Wine, and offer a sound and well-flavoured product at the cheapest possible price consistent with the excellent quality.

We have a variety of labels, and would be pleased to submit same to you for your selection, together with a sample of the Wine.

C. R. HARKER, STAGG & MORGAN, LTD.

DEVON WHARF and BELL WHARF,

EMMOTT STREET, MILE END, LONDON, E.1.

A SATISFIED CUSTOMER IS THE CHEMIST'S BEST ADVERTISEMENT

The Marvel Whirling Spray Syringe



Gold Medal Awarded, Paris, 1902,
by the Société d'Hygiène de France

as the latest and best improvement in Vaginal Syringes. Particular attention is called to the fact that by reason of its peculiar construction the Marvel Syringe dilates and flushes the vagina with a volume of whirling spray, which smooths out the folds and permits the injection to come into contact with and cleansing the entire surface.

Fully Protected by Patents.



IT IS A MARVEL



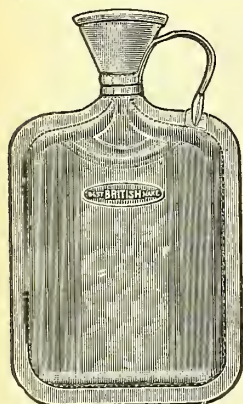
You can safely recommend it.

Has no rival on the market, is well advertised, pays a good profit, quality guaranteed. The MARVEL is returnable for exchange if found defective and reported promptly.

Trade price, 125/- per doz.

Retail price, 15/- each.

FASSETT & JOHNSON, Ltd.
86 Clerkenwell Rd., London, E.C.1.



HOT WATER BOTTLES

BEST BRITISH MAKE.
SPECIAL OFFER (with COVERS COMPLETE) at 6x8 3/-, 6x10 3/2, 6x12 3/8 each (INCLUSIVE).

Samples submitted on approval.
Advertising Balloons a Speciality and all Surgical Rubber Goods.

JAMES TOMPKINS Ltd.
"THE RUBBER HOUSE,"
386 CITY ROAD, LONDON, E.C.1
Estd. 45 years. Phone Clerkenwell 3774



Can you meet the demand?

Sales are bounding up every week of

NORVIC

CREPE BANDAGES

the universal remedy for varicose veins. Ask your wholesale house for them.

Easily handled. Quick Sellers.

Grout & Co., Ltd., Gt. Yarmouth.

London Agent

T. S. Eastaway, 35, Wood St., E.C.



PNEUMONIA JACKETS VACCINATION PADS

of BEST QUALITY material, and SCIENTIFICALLY finished.

Each in separate Greaseproof paper. Printed envelopes and contents VISIBLE.

DELIVERY FROM STOCK.

Surgical Dressings

*Packed to suit
Customers'
requirements.*

*Special Quotations
for Large Quantities.*

BANDAGES

OPEN WOVE
CREPE
DOMETTE
FLANNEL
PLASTER OF
PARIS
GRINOLINE

ABSORBENT

GAUZES

ABSORBENT

RIBBON

GAUZES

ABSORBENT

WOOLS

ABSORBENT

LINTS

ABSORBENT

GAUZE

TISSUE

WOOD WOOL

WADDINGS

GREY

CARDED WOOL

JUTE TOW

PEAT MOSS

JACONETS

SHEETINGS

BATISTES

OILED SILKS

& COTTONS

G. P. TISSUE

Carnegie Bros.

Contractors
to H.M.
Government.

227-229 ESSEX ROAD, LONDON, N.1.

Telegrams : " Carnebros, Phone, London."
Codes : ABC 5th & 6th Editions, Bentley's & Marconi's.
Telephones : Dalston 3569 (2 lines).

Inquiries and Correspondence Invited.

WHOLESALE AND EXPORT ONLY.

Fig. 957



The "EMPIRE" HOT WATER BOTTLES

Place your order *now* for present or future delivery, as prices will not go any lower than the following. Chemists who have built up a reputation for reliable Hot Water Bottles continue to order our well-known "EMPIRE" brand of these goods. Do not risk trying an unknown make.

One quality only—the Best. Guaranteed for two years.

The Red Hot Water Bottles are selling well. The colour and finish appeal to anyone looking for a seasonable present. Each one of these is fitted with a spare washer.

		PRICES as follows:—							
Heavy make	Sizes	6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14 in.
Grey rubber	each	3/5	3/9	4/1	4/5	4/9	5/3	5/6	6/0
Red rubber	"	3/8	4/0	4/4	4/8	5/0	5/6	5/9	6/6
Each Bottle in a strong paper bag with directions for use.									
		COVERS.							
Scarlet or grey plush ea.	Sizes	6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14 in.
Velour, assorted colours	each	1/2	1/4	1/6	1/7	1/8	1/10	2/-	2/3
(washable)	each	1/3	1/5	1/7	1/9	1/10	2/-	2/3	2/6
MUFF WARMER, red rubber, oval shape, 3½ × 7 in., each 2/-									

For the Christmas trade we hold a large variety of

Toilet Sundries—BRUSHES, COMBS, MANICURE INSTRUMENTS, POWDER PUFFS, SCISSORS, VANITY BOXES, ETC., ETC. A discount of 5 per cent. for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for New Price Lists of Druggists' Sundries, Rubber Goods, Cut Sheet Rubber Appliances, etc., containing full particulars of our well-known "Empire" brand of Air Cushions, Clinical Thermometers, Enemas, Hot Water Bottles, etc., etc.

BURGE, WARREN & RIDGLEY, Ltd., 91 & 92, GREAT SAFFRON HILL, LONDON, E.C.1.



WM. WARNE & CO. LTD.

29 GRESHAM STREET, E.C.2.

India Rubber Manufacturers,

Surgical, Chemical, Domestic Articles, Syringes,
Water Beds, etc.



Trade Mark
Hollandia

RUBBERFABRIEK HOLLAND
VELSEN, HOLLAND

Trade Mark
R "Stork" F
H

TEATS, SOOTHERS, RUBBER GLOVES, SURGICAL RUBBER GOODS

Samples and Quotations gladly sent by ENGLISH REPRESENTATIVE, 35 NEW CAVENDISH STREET, W.1.

CURASOL SULPHUR SOCKS

Reduction in Price

Retail 3d. pair. Cost 2/- doz. Six doz. lots @ 23/- gross.

DISTRIBUTING AGENTS

ENGLAND & WALES: SANGERS, HAMPSTEAD RD., LONDON, N.W.1.

SCOTLAND: MUNRO, M'LAREN & SUTHERLAND, GLASGOW

FOR SAMPLE PAIR SEND POST CARD STATING SIZE TO

THE CURASOL SOCK COMPANY, 19/20 Garlick Hill, LONDON, E.C.4.

ZEAL'S REGISTERED
Clinical Thermometer

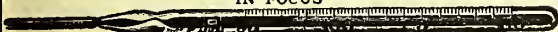
The REPELLO requires no shaking down

A 30-second pushed back in an instant.



**NEW IMPROVED
LENS FINDER**

The only Easy Reading Magnifying Clinical on the Market.
IN FOCUS



The square mark engraved on lens front locates the Mercury column immediately.

SPECIAL AWARD AND GOLD MEDAL, NEW ZEALAND, 1907.
SILVER MEDAL, INDIA, 1909. SILVER MEDAL, LONDON, 1913.

All Clinical Thermometers are supplied N.P.L. Tested unless otherwise ordered.

G. H. Zeal, Ltd., 82 Turnmill Street, London, E.C. 1.

Wholesale Manufacturers of Clinical Thermometers.

Contractors to H.M. Government.

Established 1888

Tel. No. : Central 12438.

BEST QUALITY. **CLINICAL THERMOMETERS** LONDON MADE.

(EASY SHAKE).

Tested and Stamped at N.P.L. Complete in Card or Metal Cases.

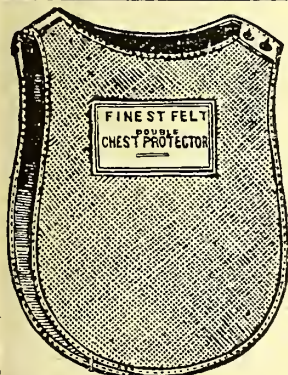
2 min... .. 16/-	2 min... .. 17/-
1 " " " " 17/-	1 " " " " 18/-
1/2 " " " " 18/-	1/2 " " " " 19/-

Your own name and address marked on FREE.

5% discount allowed on orders for 6 dozen and over. Special quotations for larger quantities.

DAVIS & CO., 47 RED LION STREET, CLERKENWELL, E.C.1.

PHONE: HOLBORN 5537.



WE GUARANTEE EVERYTHING WE SELL.

Chest Protectors, Abdominal Belts, Suspensory Bandages, Finger Stalls, Magnetic Belts, Wrist Straps, etc.

Actual Makers—

A. B. FROST & CO.
BEESTON, Notts.

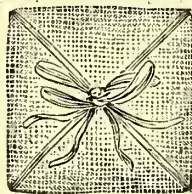
Wholesale only.

VACCINATION PADS

AND

SHIELDS

CHILDREN



ADULTS

IMMEDIATE DELIVERY

WRITE FOR SAMPLES AND PRICES.

ARTHUR BERTON, Ltd.
15/17 WORSHIP ST., LONDON, E.C.2

36 Chapel St., Victoria Bridge, MANCHESTER
84 Miller St., GLASGOW.

A BIG REPEATER.

Sells on sight. Gives Satisfaction. Pays well.

The "EVERSAFE" BABY PACIFIER

Pure jelly filled, non-collapsible transparent nipple. The "Eversafe" is the Pacifier that is Different, and it is still on Top. Perfect quality and workmanship. Baby's delight and Mother's favourite because she knows it is safe—baby cannot pull it apart.

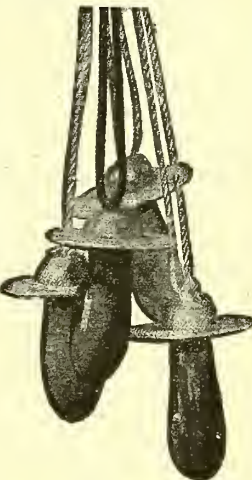
Patented everywhere.

Present Rates :

No. 2	4d. line	2/9 doz.
" 2C	6d. "	3/2 "
" 2E	6d. "	3/4 "
" 3	7 1/2 d. "	4/8 "

Sample order, 3 doz. assorted :

Send 10/6, post free.



Obtainable from all wholesalers or direct from Patentees.

F. SCHUTZE & CO., LTD.
BLACK BULL WORKS, LONDON, N. 7.

"Cynta" Hygienic "Towelines."

REG. REG.

Mass production and the most modern methods of manufacture now enable us to offer the High-Class "CYNTA" Hygienic "TOWELINES" at prices within the reach of everyone.

Size	0	1	2	3	4	5	6
TRADE PRICES	6/9	8/4	11/4	13/10	15/9	18/9	22/2
				Per gross			
RETAIL PRICES	10d.	1/0	1/4	1/8	2/0	2/4	2/9
				Per packet of 1 doz.			

ONE SAMPLE PACKET
OF EACH SIZE, 1, 2, 3,
SENT POST FREE ON
RECEIPT of P.O. VALUE
2/9.

Order your supplies through
your Wholesale House. We
invite comparison for QUALITY
and VALUE.

SAMPLES FREE on application to

The CYNTA MANUFACTURING Co.
St. Thomas' Place, STOCKPORT.

Companion Lines



WELL PACKED IN
BOXES OF 2 DOZEN.

WELL PACKED IN
BOXES OF 3 DOZEN.



'SIMPLIC' REGD. SOOTHERS

Made of purest
India Rubber.

No taste or smell.

Practically indestructible.
The most perfectly made
all-rubber soother ever
offered for sale.

'SIMPLIC' TEATS REGD.

Made of purest India Rubber.

In 8 different patterns.

Each in separate carton.

IN BOXES OF 3 DOZEN.

Ask your Wholesaler for "Simplic" REGD.

AN OPPORTUNITY

WORTH
SEIZINGSEIZE
IT

Attractive
Handbills
for every
Trade
Stockist.

A
"GOOD"
Metal
Polish
"Should
Be" within
your
sphere.

— IF —
A FURNITURE POLISH
COMES WITHIN THE SCOPE OF THE
CHEMIST'S ACTIVITIES WHY NOT
A GOOD METAL POLISH

— ? ? ? ? —

"QUIKKO"

METAL POLISH

IS DIFFERENT FROM, AND
FAR SUPERIOR TO, ALL OTHER
METAL POLISHES. IT HAS
TALKING POINTS WHICH MEAN
MONEY TO THE SELLER.

IT IS QUITE TASTELESS. It does not leave that
 nasty polishy taste on cutlery, spoons, forks, etc.

IT IS NON-SEDIMENTAL. Can be used to the
last drop. If the tin be left for months the contents
are as liquid as on the day it was packed.

IT IS NON-TARNISHING. No need to polish as
frequently. Think of the time and labour cut out.

THE POLISH IS BRILLIANT, and arrived at
more quickly and with less effort.

THE PRICE IS COMPETITIVE.

OF COURSE YOU COULD SELL A METAL
POLISH WITH THESE RECOMMENDA-
TIONS. ARE YOU PREPARED TO GIVE
IT A TRIAL? IF SO, WRITE

THE COUNTY CHEMICAL Co., Ltd.
CHEMICO WORKS . . . BIRMINGHAM.

ALL

BRITISH

MADE

BY

BRITISH

LABOUR.



MENTION

ROBINSONS' MAKE

WHEN ORDERING FROM
YOUR WHOLESALE HOUSE
YOUR NEXT SUPPLY OF

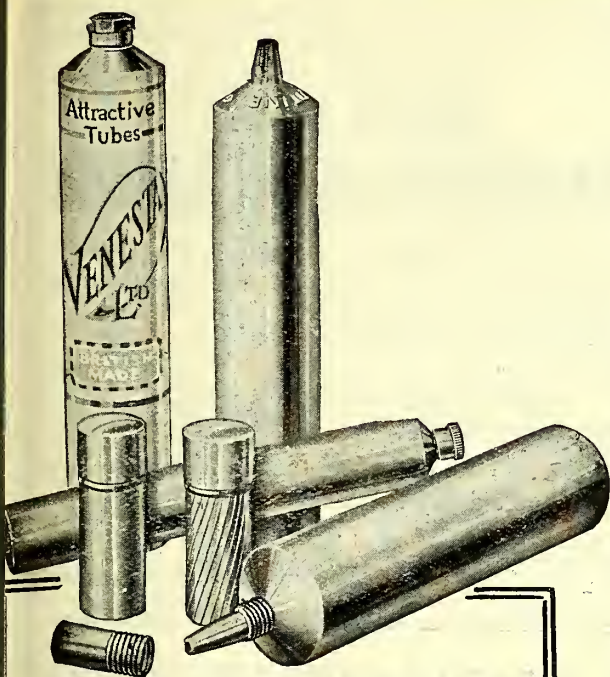
PILL BOXES

SUPPORT HOME INDUSTRIES.

ROBINSON & SONS, LTD.

BOXMAKERS TO THE
CHEMIST TRADE

CHESTERFIELD.



Venesta Tubes

When ordering your next supply of tubes remember that Venesta collapsible tubes possess a quality and finish that make them a real selling force.

They are made from Pure Tin, Lead or Lead-coated with Tin and supplied plain or enamelled and printed with designs to suit customers' own requirements.

We also supply Lip-salve Cases, Sprinklers, etc., and shall be pleased to forward illustrated lists, samples and current prices on application to—

G. Dept.

VENESTA LTD.

1 Great Tower Street, London, E.C.3.

Actual Manufacturers of
TINFOIL

Plain, coloured and embossed in any size, gauge or shape.

"Corruganza" SEAMLESS OINTMENT BOXES

Have replaced the old "Willow" boxes—Greaseproof—the bottoms cannot fall out.

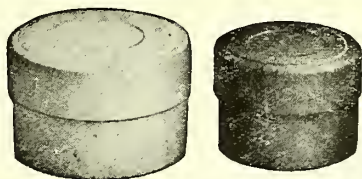
GERMAN "WILLOW" BOXES are again being offered at lower prices, but these boxes will not hold Powders, nor, in warm weather, Ointments.



THEY ARE DEAR AT ANY PRICE.

Stick to the ONE-PIECE principle

"Corruganza" SEAMLESS PILL BOXES.



THE phenomenal success of the "Corruganza" Seamless Ointment Boxes has resulted in our manufacture of Pill Boxes made on just the same **One-Piece** principle. Stocked in usual sizes. They cost a little more than the Ring and Disc style, but **THEY HOLD THE GOODS**, and do not fall to pieces in handling or in the pocket.

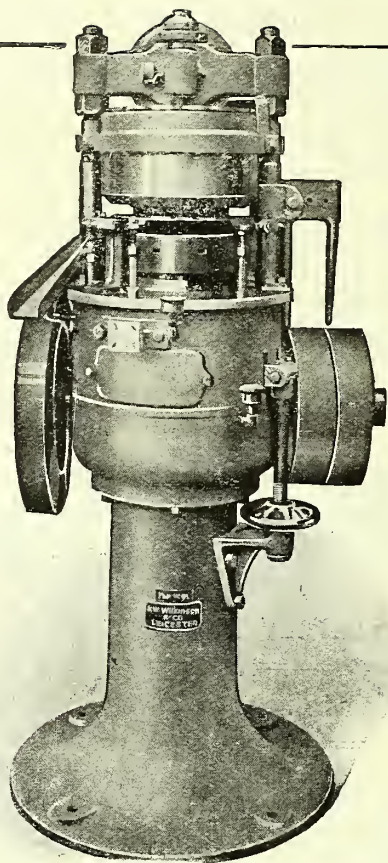
Wholesale or Export only from

HUGH STEVENSON & SONS, LIMITED,

Summerstown Works, London, S.W. 17

And at Manchester, Birmingham, Leith, Perth & Glasgow.

Kindly mention this Journal when replying to the advertisement.



ROTARY TABLET MACHINES

These Machines are now made in 4 sizes:

12-PUNCH	ordinary for tablets from $\frac{3}{8}$ " to $\frac{1}{2}$ " dia.	output 400 per min.
20-PUNCH	" " " " $\frac{1}{4}$ " to $\frac{1}{2}$ " " "	700 "
12-PUNCH	heavy for thick tablets and blocks 1" " "	250 "
18-PUNCH	" " " " " " 1" " "	400 "

(PATENT) Lists on Application

DURING the war these Machines ran 16 hours a day non-stop.

SINGLE punch machines, made in 5 sizes for tablets from $\frac{1}{8}$ " to $1\frac{1}{2}$ " diameter, also lozenges.

S. W. WILKINSON & CO.

PHARMACEUTICAL ENGINEERS,

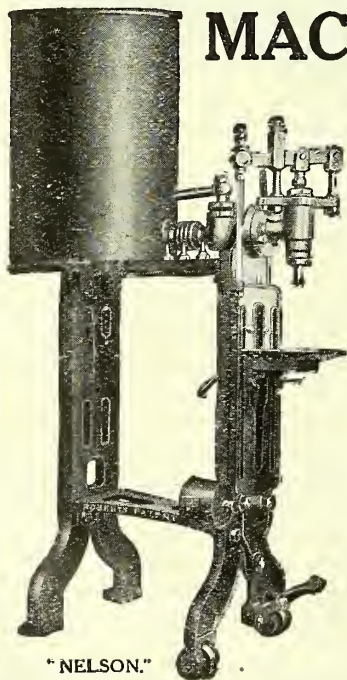
Telephone:
3783
Central.

WESTERN ROAD,
LEICESTER.

Telegrams:
"Wilkinson, 3783,
Leicester."

(2)

ROBERTS' ORIGINAL PATENT BOTTLE-FILLING MACHINES



"NELSON."

Don't waste money on imitations, buy **Roberts' Machines** which actually Created the Records for

**CLEANLINESS
SIMPLICITY**

and Rapidity in
Bottle Filling.

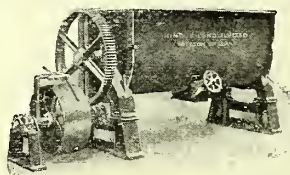
NOTE the Address:
**ROBERTS' PATENT
FILLING MACHINE CO.
33 ROUNDCROFT ST.,
BOLTON.**

Our latest patent
"Alpha," price £14,
will fill 10 gross bottles
per hour.

Write for Particulars.
All Rights Reserved.

"ATLAS" PATENT MIXERS & SIFTERS

Combined or Separate Machines.



Absolutely up-to-date in every detail, strong, and most reliable machines on the market. Various sizes.

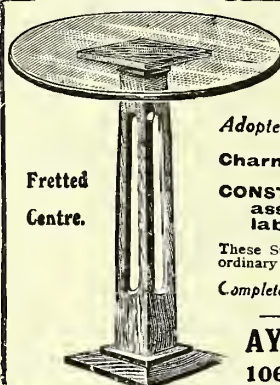
BALL MILLS

HIND & LUND, LTD.

ATLAS WORKS, PRESTON.
Telegrams: "Atlas Preston."

(3)

OAK PEDESTALS AND Plate Glass Shelves



Adopted by Leading Window Dressers

Charming and Artistic Effects

CONSTANT CHANGE OF SHOW
assured. Window-dressing
labour more than halved.

These Stands can be used in conjunction with ordinary rows of Window Shelves if desired.

Complete Sets 27/6, 50/-, 81/6, 96/6 & 97/6

AYRTON-GRAHAM, Ltd.
106 Duke St., LIVERPOOL.

COLTON PASTE MIXERS

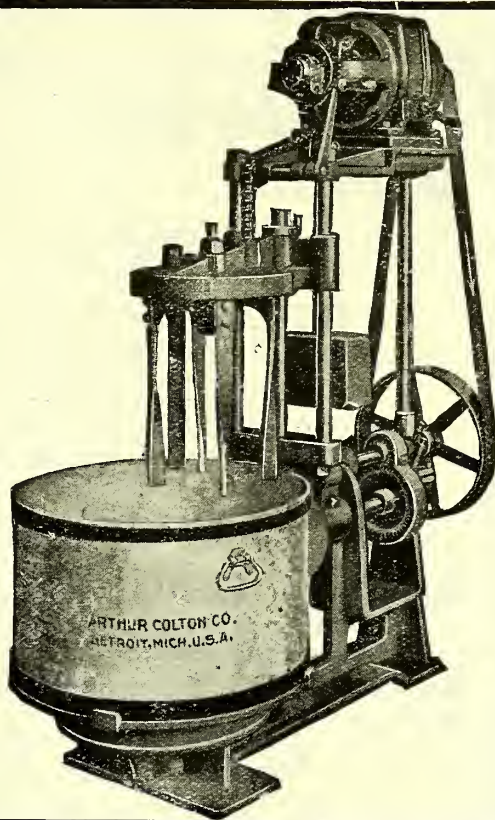
Especially adapted for the mixing of Tooth Pastes, Toilet Creams, Paints, Inks and various materials in paste form. Heavily made cast iron frame, fitted with machine-cut gears that ensure easy and silent working. The mixing blades turn in one direction while the container revolves in the opposite direction, a stationary blade preventing material from adhering to inside of the container.

Prices and specifications of various designs sent on application.

Sole British Agents:

JOHN J. GRIFFIN & SONS LTD.

Kemble St., Kingsway, LONDON, W.C.2



DAWSON BROS., LIMITED.

The World-Renowned Bottle-Washing Machine Makers.

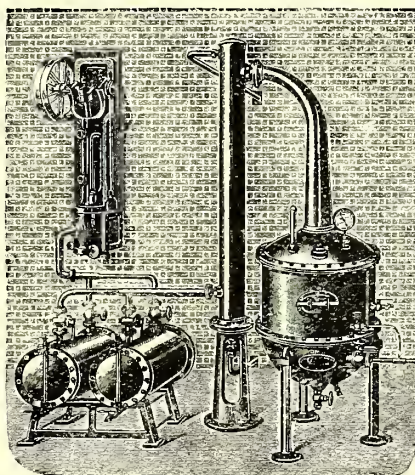
To suit all Descriptions of Bottles. Large or Small Output.



No. 21. Treadle Bottle-Washing Machine.
Most Suitable for Manufacturing Chemists

VENTNOR IRON WORKS, GOMERSAL, Near LEEDS.
EASTWOOD RD., SOUTH WOODFORD, LONDON, N.E

Write for Complete Lists



STILLS, VACUUM STILLS, VACUUM PANS.

Evaporating Pans. Autoclaves and Digestors.

Special Apparatus and Plant for Manufacturing Chemists.

Sole Makers of Bennett's Patent "Ideal" Annular
Film Condensers. Shears' Patent Mulser.

BENNETT, SONS & SHEARS, LTD.

Engineers & Copper-smiths,

43 & 44 Shoe Lane,

LONDON, E.C.4. 3

Pharmacists' Printing . . .

OF EVERY DESCRIPTION
EXECUTED PROMPTLY &
EFFICIENTLY. THE BEST
QUALITY WORKMANSHIP
AT THE MOST MODERATE
.. .. PRICES.
SEND A TRIAL ORDER.

James F. Wilkinson

(Exors.: G. J. Gerry and J. G. Friber),

Pharmacists' Printer,

Pendleton, .. Manchester

Our Motto - - "Præstantia et Celeritas." (d)

WAXED PAPERS

Specially suitable for
packing all kinds of
POWDERS, SALTS, DRUGS, etc.

WATERPROOF PAPERS

For all packing purposes.

Plain, Printed, Sheets,
Rolls, etc.

Actual Manufacturers:

Messrs. GEO. CHURCH & Co., Ltd.
"Star" Mills, Nunhead Lane, S.E. 15

SOL-VO SANITARY ROLLS & PACKETS.



SOL-VO
REGD
THE BEST & PUREST
SANITARY PAPER



Three dozen Rolls	...	8/-	net.
Half gross lots	...	7/6	"
One gross lots	...	7/-	"

Three dozen Packets	...	11/-	net.
Half gross lots	...	10/6	"
One gross lots	...	10/-	"

CARRIAGE PAID.

FORD, SHAPLAND & CO. Ltd.

LABELS & SHOWCARDS — PRINTERS — CARTONS & ENVELOPES.
GT. TURNSTILE, HIGH HOLBORN, LONDON, W.C.1.

TELEGRAMS: FORSHAPCO, WESTCENT, LONDON.

TELEPHONES: { HOLBORN 5503.
CITY 65.

WHITAKER & CO'S PAGE

THE PRACTICE OF HOME DYEING

has now been universally adopted by all classes of Society. For 50 years the firm of Whitaker & Company, of Kendal, have specialised in the production and perfection of Household Dyes for the Chemists' Trade.

Nearly all Chemists stock and recommend their goods, which, besides being of proved excellence, are beautifully produced throughout.

Foremost among their Specialities are

"LUTON"

STRAW HAT DYES.

Supplied in Dull or Glossy Series, with suitable Brush. In all Colours.

"AURORAL"

COLD WATER DYES.

The Two-Minutes Process for Dainty Garments which the process of Boiling might injure. Have you seen the Six New Dark Shades?

"LUTON"

FABRIC DYES.

The Ideal Fast Boiling Dyes for all Materials. 24 Beautiful Fast Colours.

Also Gold Paint, Varnish Stains, Black Lacquer,
etc., etc.

For further information and latest Patterns, Prices, Discounts, etc., write now while it is in your mind to the Manufacturers—

WHITAKER & CO., Luton Dye Works, KENDAL.

Dye Specialists to the Chemists' Trade.

Telegrams "DULLETTE KENDAL."

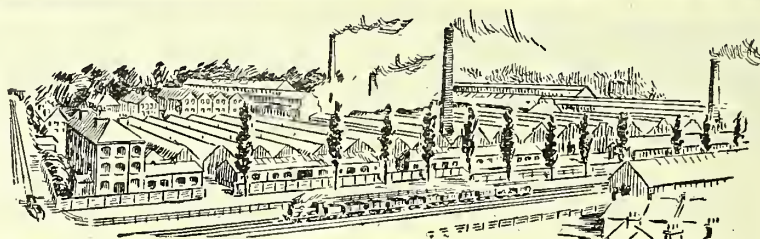
Telephone. 214.

LONDON OFFICE & SHOWROOMS: 61 & 62 Craven House, Kingsway, W.C.2.

Established 1878

Telephone: GERRARD 1774.

Our Products are of entirely British Origin and Manufacture.



VICKERS LIMITED are specially engaged at their Erith Works, Kent in the design and manufacture of the most up-to-date plant for making all kinds of pilferproof shipping containers.

This form of container is lighter and stronger than a wood case—also more convenient as it can be stored in the flat and made up as required. It will also be found to be cheaper—Vickers Limited are in the position to give free advice as to plant and can now supply the machinery.

Please address all enquiries to:



Department No. 75,

ERITH WORKS, KENT.

Osmos
The Great British
Aperient Water

Profit 8d. Per Bottle

Doctors are regularly canvassed. This ensures a constant stream of orders and repeat sales. A few bottles in your window will pay you well.

Trade Terms: 22/- per dozen Bottles.
Carriage paid. Retail 2/6 (P.A.T.A.).

OSMOS WATERS LTD.,
Crown Wharf, Hayes, Mdx.

For Status Inquiries, Collection of Accounts, and Investigations,
Business Transfers, Stocktaking and Valuations,

**Join The Association of
Manufacturing Chemists, Ltd.**

which is **THE MEDIUM** for the TRADE.

PROSPECTUS ON APPLICATION.

PARKIN S. BOOTH,

Accountant to the Association of Manufacturing Chemists, Ltd.
(for the Protection of the Drug, Chemical and Allied Trades)
26/28 KIMBERLEY HOUSE, HOLBORN VIADUCT, E.C.

Telephone: City 6942.

Or 35, 36 & 37 EXCHANGE CHAMBERS,

2 BIXTETH ST., LIVERPOOL. Telephone: Central 4330 (4 lines).

BATTLE'S Specially packed
Lines for Chemists

Disinfectants— Carbolic and Pine Fluids, all strengths.

Pink Carbolic Powder, enamelled tins.

Carbolic Tooth Powder. Cloudy Ammonia.

Horse Condition Powders, Colic Drinks, Red and Yellow Drenches.

Lambing and Cattle Oils, Foot Rot Paste and Lotion.

Embrocation (Veterinary and Household), Seed Dressings, Formalin.

Approved Sheep Dips (Liquid), Powder and Paste.

Weed Killers (Poisonous and Non-Poisonous), Lawn Sand, &c.

BATTLE, HAYWARD & BOWER (formerly Battle,
Maltby & Bower), Victoria Chemical Works, Lincoln.

SLIPPERINE

REGISTERED

All the name implies—

a smooth, perfect dancing surface, over which the feet glide easily.

The effect is immediate, the result lasting, and there is absolutely no dust.

Attractive get-up and generous advertising aids help initial sales, the quality ensures repeats.

P.A.T.A. prices guarantee a profit worth while.

1/6—12/- doz. 3 doz. or equiv., less 2½%

2/6—20/- doz. 6 doz. or equiv., less 5%

1 doz. 2/6 being considered equivalent to 2 doz. 1/6.

SHOWCARDS WITH EACH ORDER.

If your wholesaler does not stock, the makers will dispatch, carriage paid, 4 doz. 1/6 (or equivalent) with a full supply of showcards, &c.

Distributors to the Wholesale Trade:—
London and District

WHOLESALE :—

BUTLER & CRISPE, London.
FRANCIS NEWBERRY & SONS, Ltd.,
London.
MAY, ROBERTS & CO., Ltd., London.
W. SUTTON & CO., Ltd., London.
SANGERS, London.
PREMIER DRUG CO., Manchester.
RICHARD DANIEL & SON, Derby.
MACSONS, Ltd., Blyth, Northumber-
land.

MAY, ROBERTS & CO., Ltd., London

BOILEAU & BOYD, Ltd., Dublin.
MAY, ROBERTS & CO., Ltd.,
Dublin.
HASLETT, Ltd., Belfast.
JOHN MORTIMER & SONS, London-
derry.

Stocked by all Wholesalers in
Scotland.

EXPORT—W. C. RUDKIN & CO., 44 King William Street, London.

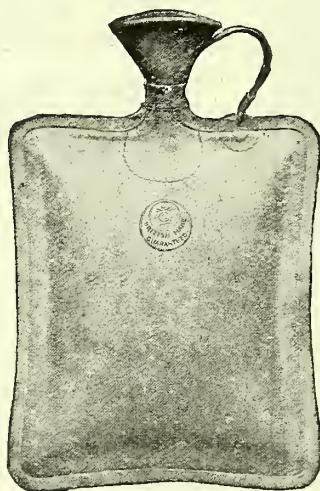
A FEW BROWNIE MODELS IN PLASTER CAST ARE NOW
AVAILABLE. WRITE US, STATING STOCK IN HAND AND USUAL
WHOLESALE'S ADDRESS, WHEN FULL PARTICULARS WILL
BE FORWARDED.

Makers: **JOHNSTON & ADAMS, DUNDEE.**

MAY, ROBERTS'

"L" BRAND

HOT WATER BOTTLES



"Guaranteed for Two Years."

SIZE	6 x 8	6 x 10	6 x 12	8 x 10	8 x 12	8 x 14
Each Nett.	2/6	2/10	3/2	3/3	3/9	4/2
SIZE	10 x 12	10 x 14	10 x 16	12 x 14	12 x 16	
Each Nett.	4/2	4/9	5/3	5/3	5/9	

*For orders of 3 dozen assorted we
allow a Special Discount of 5%*

WE HOLD LARGE STOCKS OF PLUSH AND FLEECY
HOT WATER BOTTLE COVERS, AND WE SHALL BE
PLEASED TO QUOTE SPECIAL PRICES FOR QUANTITIES.

MAY, ROBERTS & CO., LTD.

7/13 CLERKENWELL ROAD, E.C.1

And at Dublin, Liverpool and Plymouth.

THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON E.C.4

NOVEMBER 25, 1922

This Supplement is inserted in every copy of The Chemist & Druggist.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No.: City 2283.

May be consulted at their Offices on matters of **SALE, PURCHASE and VALUATION**

LONDON (WESTERN SUBURB).—Death Vacancy. Well-furnished Business, situate in busy main thoroughfare; single-let shop, attractive window, and modern fittings, with recesses; good residence; new lease will be granted; intending purchasers with £1,550 at command are invited to investigate. Further details on application.

LIVERPOOL STREET (NEAR).—Retail and Dispensing Business, with excellent sale for two proprietaries; gross receipts £26,500 yearly, under management; gross profit upwards 10 per cent.; attractive shop front and modern window fittings; new lease will be granted. Offers invited.

LONDON, W. (SUBURBAN).—Cash Retail Business; capital situate in busy shopping thoroughfare; returns about £30 weekly under indifferent management; scope for large development; about the value of stock and fixtures would be accepted.

LONDON, W.—Good-class Dispensing Business; returns £10,000, at full prices; double-fronted shop, well-fitted and heavily stocked; new lease will be granted; further details receipt of banker's reference.

SOUTH LONDON.—Nucleus of a Manufacturing and Wholesale Chemist's Business; the turnover is at present small enough want of attention, but the opportunity exists to create good business; low rent; about £200 required.

CITY (NEAR).—Ready-money Business; returns about £500 per annum, under management; net profit about £700; double-fronted shop, well-fitted and stocked; held on lease at moderate rental; terms, valuation of stock and fixtures, and sum of goodwill to be arranged.

WALHAM GREEN (NEAR).—Cash Drug Stores; returns, net rate, £15 to £16 weekly under management, at good price; single-fronted shop, full stocked; small living accom-

modation; held on long lease; rent £48; price £525, or near offer cash.

8.—DORSET.—General Retail and Dispensing Business, with Optics; returns last year £2,530; net profit, about 25 per cent.; the shop is well fitted and stocked; there is ample living accommodation; terms, goodwill £250, stock and fixtures at valuation; freehold, £2,000; part payment entertained.

9.—SHEFFIELD (NEAR).—General Retail and Prescribing Business; returns last year about £800, with scope for increase; single-fronted shop, fitted in mahogany and fully stocked; new lease will be granted; rent £33; price £730.

10.—NEWCASTLE-ON-TYNE (Within Easy Distance of).—General Retail Business, offering scope for extended trading under energetic management; returns, about £20 weekly; single-fronted shop, fitted in mahogany, and fully stocked; rent moderate; terms, valuation of stock and fixtures, about £650.

11.—SOUTH WALES.—Old-established Business with Wine and Spirit Licence; returns last year £3,220 at good prices; house contains 10 large rooms; private entrance; 17 years' lease; no opposition; price to be arranged.

12.—BIRMINGHAM.—Small Glass Bottle Manufacturing Business, also Perfumery Business, suitable as an adjunct to an established wholesale house; scope for considerable extension under energetic management; 6 large workrooms; low rent; price £550.

13.—SOUTH COAST.—Cash Retail Business, including postal connection; returns upwards of £12,000 per ann.; prices above the average; intending investors will be furnished with further details on receipt of a banker's reference.

14.—WHOLESALE BUSINESS.—Established upwards of a century; a number of Proprietaries are included, which are stocked by most Chemists in the kingdom; returns have been over £6,000, now less; further details on application.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties and make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C. 4.

PARTNERSHIPS.

for 50 words or less; 6d. for every additional 10 words or less, prepaid.

ADVERTISER, qualified, capital £1,000, desires position in good-class business, with view to early Partnership or succession. 144/8, Office of this Paper.

MANAGER, with view to succession within six months; light Retail and Dispensing or mixed; returns £1,500 to £2,000; must bear strict investigation; North preferred, preferably seaside or near; solicitor's and banker's references supplied. Full particulars first letter, in confidence, to 143/15, Office of this Paper.

WANTED, an opening by fully qualified and highly experienced Pharmacist, with capital up to £1,500 immediately available; management, partnership, purchase, or any position leading out good prospects considered. Highest references given and expected. All replies will be answered and treated confidentially. P.C.B. 75/37, Office of this Paper.

WANTED, active Partnership and living accommodation by married pharmacist, 29, in genuine business, with good prospects for energetic man, view to succession; investment up to £1,000 cash available. Would be willing to purchase small business, with good prospects to business builder; must bear strict investigation. Replies treated in absolute confidence. 145/22, Office of this Paper.

YOUNG qualified lady, 25, attractive, good business woman, would like to communicate with Chemist or Doctor with view to buying Business and settling down; capital and references. Replies strictly confidential and only genuine need apply. 141/29, Office of this Paper.

FOR SALE.

ENTIRE Fittings, Cases, etc., of Chemist shop, Shop Rounds, Jars, some Stock; suit beginner or branch; cheap to clear. Johnson, 104, Fore Street, Devonport.

METAL Jar Tube Containers (non-collapsible), unique shape, small, ½ oz. and less, suitable for Cream, Paste, Cosmetics, etc., also suitable for sample purposes. About 8,000. Tools for further quantities may be used; Embossed Metallic Paper Seals may be fixed on containers, and Caps or Push-Corks used. 145/16, Office of this Paper.

SHOWCASE, mahogany frame, with flat plate-glass top, sides and front, 6 ft. x 3 ft. x 2 ft., four plate-glass shelves, and three mirrored doors at back; two Rolled-top Desks, 4 ft. and 5 ft.; all excellent condition. The Anglo-French Drug Co., Ltd., 238a, Gray's Inn Road, London, W.C.1.

2 DOZEN 1 lb. Bottles, Essence of Peppermint, 1 in 10; one bottle, post free for 12s.; cash with order. John Noble, 17, Owen's Row, London, E.C.1. Exceptional value.

BERDOE & FISH

Valuers and Transfer Agents,

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone—1809 CENTRAL

1.—MIDLANDS.—Good-class Family Retail, with Wholesale, in large market town. Returns over £4,500. Modern pharmacy, good position, and heavily stocked. Valuation terms arranged. Applicants with £2,500 at command can have further details; references required.

2.—SOUTH WALES.—Smart up-to-date and progressive Business for sale through ill-health; returns approach £2,500; finest position in large market town; Kodak Agency; long valuable lease at low rental; beautifully fitted Pharmacy, well stocked; price about £2,350.

3.—LONDON, S.W.—Cash Drug Stores, returning £15 to £16 weekly under poor management; can be doubled; no near opposition; low rent, long lease. Price, £550.

BUSINESSES WANTED.

IMMEDIATELY, in large town, a good sound business, returning not less than £3,000 a year, and capable of extension. Client waiting with £3,000 cash available; also a large number of buyers seeking smaller concerns in all parts.

STOCKTAKING VALUATIONS.

Messrs. Berdoe & Fish are now booking dates for December and the New Year, and are in a position to fix up one or two large stocktakings during the next two months at special low rates; our long and varied experience enables us to do the work quietly and without disturbing the general routine of business. We cordially invite applications for our special revised terms;

ESTABLISHED 1870.

The Association of Mnfgr. Chemists

— LIMITED —

Head Offices: 26-28 Kimberley House, Holborn Viaduct, London, E.C.1 and at 2 Bixteth Street, Liverpool.

PARKIN S. BOOTH, Accountant and Valuer PHONE: CITY 6942-43

WE HAVE THE FOLLOWING BUSINESSES FOR DISPOSAL.

1.—WEST OF ENGLAND.—General Business for disposal; would suit Motor Engineer; with premises suitable for opening a Chemist's business; without competition; established 10 years; price for freehold premises, goodwill, fixtures, fittings, and stock, £1,700; premises consist of double-fronted shop, large dwelling house, workshop, and garage for 5 cars.

2.—LONDON, W.—Family Retail and Dispensing Business; returns about £1,500, increasing; rent, £60 per annum, let off £90 per annum; total income, about £1,400.

3.—WEST OF ENGLAND.—Small Tablet-making Business for disposal; excellent opportunity for small buyer; price, to include goodwill, extensive machinery plant, and stock, £400.

4.—PENRHIWCEIBER.—Small well-fitted Chemist's and Druggist's, with exceptional living accommodation; stock, £200; rent, £45 per annum; no reasonable offer refused.

5.—KENT.—Chemist's and Photographic Stores; rent £52; lease 4 years to run with probable option of renewal; returns £2,000 p.a.; net profits £450; stock about £400; price for lease, goodwill, fixtures and fittings, including 2 fully-equipped dark rooms, electric driers for prints and films, and other photographic apparatus, £1,200.

6.—LONDON, S.W.—Chemist's and Druggist's; unqualified management; rent £55; lease 20 years to run; let off £35 p.a.; premises also have sufficient accommodation for a purchaser living there in addition; returns £30 at 35%; stock £450; price, to include lease, goodwill, fixtures, fittings, utensils and stock, £1,000; no offers.

7.—YORKS.—Fully-equipped Chemist's Business for disposal; returns £1,500; rent, rates and taxes £150; stock about £750. For further particulars write as above.

8.—LONDON, N.—Chemist's Business; 14 years' lease; £63 per annum; returns, £20 a week, all ready money; price for lease, goodwill, fixtures, fittings, and utensils, stock, and to include new shop front, £850; good living accommodation; full particulars, apply.

WANTED.—Genuine Chemist's and Druggist's Business; client wishes to invest £1,000; Business must offer fullest investigation. Enquiries, in first instance, as above.

STOCKTAKING AND VALUATIONS FOR ALL PURPOSES
UNDERTAKEN UPON REASONABLE TERMS.

BAKER & ROBERTS

P. C. Baker, Ph.C., M.P.S. W. Rooke Roberts, M.P.S., F.S.M.C.

174 VICTORIA ST., S.W.1. Tel.: VICTORIA 27.

Valuers for Sale or Purchase,
Income Tax, Probate, etc.

Personal attention. No publicity.
Please write for moderate terms.

Recommended by The British Drug Houses, Messrs. Meggeson, Ltd., Messrs. Barclay & Sons, Ltd., and many other leading Wholesale Houses.

ERNEST J. GEORGE

VALUER FOR ALL PURPOSES. ACCOUNTS
PREPARED FOR INCOME TAX. BUSINESS
TRANSFERS ARRANGED. STOCKS PRICED.
BOOKS WRITTEN UP.

138 Lichfield Street, WALSALL

Telephone: 613

THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS,
AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

LONDON or Home Counties.—Pharmacist requires genuine Business, with net profit about £350 per annum; living accommodation necessary; would entertain Managership with view to early succession (qualified 1911); cash waiting and immediate negotiations. Full particulars, in confidence, "C. E. B.," Greyhound Lane, Streatham Common, S.W. 16.

SOMERSET, or other county south of Birmingham preferred. Established Pharmacist desiring change will purchase at size Business having house adjoining, or near pharmacy. Cash settlement. Banker's and wholesaler's references. Strict confidence maintained. "Exeter," 143/32, Office of this Paper.

ADVERTISER requires good-class Chemist's Business with Photographic and good living accommodation in or near London or Southern Counties; turnover £2,000 to £5,000; capable of extension; neglected not objected to; full general particulars in strict confidence; cash purchase. Farmar, 137, West End Lane, West Hampstead, N.W.6.

ADVERTISER wishes to purchase genuine middle-class Cash Business; living accommodation essential; turnover £3,000 or over; London suburb, or any nice district; must have for lease. Reply, in confidence, to 142/33, Office of this Paper.

GENUINE Business wanted within 10 miles of Cardiff, Newport or Gloucester; £2,000 cash available and open immediate negotiations. Please send particulars in confidence to D. Edwards, c/o Edwards' Stores, Whitechurch, Cardiff.

MIDDLE-CLASS Business, preferably Midlands or South, doing not less than £100 per month, but must have possibilities great extension under energetic management; must bear strictest investigation. Good house (garden preferably) fullest particulars; strictest confidence. 143/33, Office of this Paper. Will advertiser kindly send name and address to this Office.

PHARMACIST requires genuine Business immediately in good district; bear strict investigation; capital to £1,600 cash. Full particulars, in confidence, to "K. C.," 144/21, Office of this Paper.

LEGAL.

MR. C. E. PALMER, 302 Lower Addiscombe Rd., Croydon, being about to relinquish business at above address, will be obliged if all persons having accounts against him will send in same up-to-date immediately.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BUCKS. 50 miles from London.—General Mixed Business; Kodak Agency and Optics; exceptional scope for the latter. House, plenty of room, bathroom, garden; lease 7 years to run, renewable; rent, £40, 3rds of which is paid by sub-letting; no opposition; stock, £1,200; cash price, £2,000. 144/36, Office of this Paper.

MANCHESTER.—To Capitalists, Investors, etc. (vender retiring), unique opportunity to acquire a really sound and genuine, well-established, growing Manufacturing Proprietary, Toilet speciality concern doing huge turnover, and capable of great expansion; exceptionally profitable. Books audited and thorough investigation courted. Principals only, and their references entertained. About £5,000 required. 144/40, Office of this Paper.

MANCHESTER (near).—Corner Shop, central, good industrial town; rent £1 per week; three rooms over shop; separate Dispensary; turnover £1,500; N.H.I. scripts, over 4,000 per annum; inspection invited; price £200 and valuation. Reply in confidence to "Aspirin," 15/15, Office of this Paper.

NEAR London.—Cash Business; takings £1,600 per annum; approximate net profit £450; unopposed; Kodak Agency; good class trade; lock-up shop; price, £800, or near offer. Further particulars from 144/31, Office of this Paper.

SHROPSHIRE market town; established 96 years; returns £2,500; no N.H.I.; four years under unqualified management; nice convenient house, bath, h. & c., upstairs and down; nearly ½ mile garden, full of fruit trees, stable, etc.; plenty of stock rooms, and a big stock; applicants should have at least £2,500; good reason for selling; good opportunity for qualified man. 142/36, Office of this Paper.

TWO Chemists' Businesses (together or separate); good reasons for disposal. Both well stocked and doing good trade. Properties can be bought if desired to suit purchasers, or long tenancy will be granted. Would like to dispose of these by the year end. Only intending buyers entertained. Apply, "Rex," 145/20, Office of this Paper.

Re A. S. BARNFATHER, deceased.

FOR Sale, as a current going concern, the well-known, old-established Herbal Business carried on at 59, New Bridge Street, Newcastle-upon-Tyne. All particulars from Messrs. Nicholson & Martin, Solicitors, E., Milburn House, Newcastle-upon-Tyne, to whom tenders are to be sent on or before the 30th inst.

MANUFACTURERS OF TOILET REQUISITES BUSINESS FOR SALE.

THERE is available for immediate sale as a going concern the Business of Manufacturers of Toilet and Pharmaceutical products, carried on by the Vivoli Mfg. Co., Ltd., in liquidation. All particulars and information with regard to the business will be obtained on application to the Subscriber, with whom offers should be lodged forthwith.

W. MILLER DRUMMOND, C.A., Liquidator.

17, Duke Street, Edinburgh,
November 17, 1922.

£250 CASH.—Small Chemist's Business, with N.H.I., in thickly populated working-class district of East London; returns £500 per annum, increasing weekly; rent and rates equal 20s. weekly; good living accommodation; long lease; satisfactory reason for disposal. Apply 142/32, Office of this Paper.

AGENCIES.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

ADVERTISER (fifteen years' experience in the Drug Trade), with office and telephone in London, W.C. 2, is willing to act as Agent for small firm desiring London office and representation; Correspondence, Book-keeping, Interviews, etc., attended to on low terms. Write, in first instance, to "Chemist," 530 Commercial Rd., London, E.

AGENCIES for New Zealand.—Firm starting as Wholesale Agents wish to take up on commission the sale of Chemists' lines, Brushware, Toilet articles (Soap, Creams, Perfumes, etc.), Sundries, Proprietary articles, Agricultural Goods. Depot in Auckland, where goods can be stocked under guaranty. Banker's reference in London. Apply, giving full particulars, to Robison & Co., 137/38, Office of this Paper.

AGENT required for the sale of Perfumery, Toilet Soap, and Toilet Preparations in Wales; applicants must have thorough knowledge of trade and live connection amongst chemists and stores; liberal commission terms. Apply, giving full particulars, to 14/458, Office of this Paper.

AGENTS required by firm of manufacturers to introduce a proprietary line, a Skin Cure, in the form of a lotion to wholesalers throughout England and Wales. Please state territory covered and commission expected. Apply 143/12, Office of this Paper.

COMMISSION Agent wanted to take up a Photo side line in the North and Midlands of England, stating usual terms, territory covered, what other lines carried. All information strictly private. Apply 15/462, Office of this Paper.

RELIABLE Agents wanted in England, Ireland, and English Colonies by exclusive concessionaire for French Cosmetics and Perfumery "Norby," first-class products; Mimosa and all flowers from French Riviera can be also imported in England. Reply Charlotte Gastand, 1, Descente des Moulins, Monte Carlo (Monaco).

REPRESENTATIVES wanted immediately by reputable house to carry light, seasonable proprietaries commanding ready sales and repeats, on generous commission basis; first-class connection amongst chemists essential; all districts open except Birmingham and Manchester districts, Potteries, Wales and South-West, Scotland. Reply, stating ground covered, to 15/478, Office of this Paper.

WANTED, Commission Agents, Scotland, good connection with Wholesale and Retail Chemists, Stores, etc., for sale of Perfumes and Toilet Goods. References to 15/486, Office of this Paper.

NEW YEAR, 1923.

WELL-KNOWN established house, who control the sole selling for one of the best known lines in the trade, are open to undertake an additional Sole Agency for a really good Proprietary line, Toilet or Medicinal; advertisers possess a powerful selling organisation, expert travelling and clerical staff, offices and showrooms in leading London thoroughfare; 3,000 accounts open among chemists, etc., in London, Home Counties, West of England and Wales; correspondence invited from firms whose products merit expansion and who are willing to co-operate in an intensive selling campaign. 15/485, Office of this Paper.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

SITUATIONS OPEN.

[HOME.]

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

BEACONSFIELD.—Gentlemanly Junior or Improver required for a Dispensing business; outdoors; preference given to one who has served a regular apprenticeship in a good-class pharmacy, and has passed Prelim. State age, height, and full particulars to Mr. Brooke, Chemist, Beaconsfield.

BOURNEMOUTH.—Reliable Assistant required, gentleman, good Counter Hand, with knowledge of Photography preferred, and one desiring permanency. Salary and share of profits. Replies must state age, experience, salary required, and when free. 145/4, Office of this Paper.

CORNWALL.—Young, energetic, unqualified Assistant wanted (male); outdoors. State age, references, and salary required to 143/3, Office of this Paper.

CROYDON.—Required, smart Junior Assistant; also Lady Assistant, Hall qualification; experienced Dispenser, undeniable personal and business references necessary; applications not answered within 3 days respectfully declined. S. W. Vincent, Chemist, Addiscombe, Surrey.

LANCASHIRE. Qualified Manager required for light Retail business situated in a suburb of a busy manufacturing town; excellent opportunity for a married man anxious to settle down and make progress. "Lancs," 143/160, Office of this Paper.

LONDON.—Branch Manager required, age about 30; must be good Salesman and Window Dresser, and have a good knowledge of Photography. Apply, Parke's Drug Stores, Ltd., 65, Harmond Street, Chalk Farm, N.W.1.

LONDON.—Assistant required; must be a good Dispenser, accustomed to quick Counter trade, Window-dressing, and Photographic Sundries. Age not over 30. Apply, Parke's Drug Stores, Ltd., 65, Harmond Street, Chalk Farm, N.W.1.

LONDON, SOUTH.—Assistant, single, about 25 to 30, outdoors, for Stock, Dispensing, etc.; must be an expert Window-dresser and able to substantiate his ability as same. In reply give full particulars as to experience, references, salary, etc., to "Live Pharmacy," 144/27, Office of this Paper.

LONDON, N.W.—Wanted immediately, an Unqualified Assistant, either sex, principally for window-dressing, with experience and taste in display work; please give full particulars of age, experience and salary required. D. Edgar Davies, 59 Dudden Hill Lane, Willesden, N.W. 10.

LONDON, N.W.—Wanted immediately an Assistant for good-class Dispensing Business. Apply by letter, giving full particulars. H. Richman, 6 Canfield Gardens, N.W.

LONDON, S.W.—Junior or Improver required (gentleman) for quick cash counter business, N.H.I. Dispensing, knowledge of Photography essential. Apply, stating age, height, experience, and salary required (outdoors). 144/25, Office of this Paper.

MIDDLETON-IN-WHARFEDALE SANATORIUM.

APPOINTMENT OF DISPENSER.

THE County Council of the West Riding of Yorkshire invite applications for the appointment of Dispenser (non-resident) at the Middleton-in-Wharfedale Sanatorium, near Ilkley (250 beds).

The salary will be £200 per annum.

Further particulars and form of application may be had from the undersigned, by whom all applications must be received not later than the 4th December, 1922.

FRANCIS ALVEY DARWIN,

Clerk of the County Council.

County Hall, Wakefield.
November, 1922.

WEST RIDING.—Qualified Manager required for light Retail and Prescribing business; married; state fullest particulars and salary required; interest in profits offered. 143/16, Office of this Paper.

A VACANCY occurs for a well-educated youth as Apprentice in an old-established Retail and Dispensing business in Essex, 12 miles from London. Apply 141/8, Office of this Paper.

A N Assistant in a good-class Retail and Dispensing business with Photographics; must be courteous, punctual, well up in his work, and character must bear strictest investigation; permanency to suitable man. State details of previous experience, salary required (outdoors), whether married or single, and when disengaged. D. T. Evans, Ltd., Chemists, Margate.

A SSISTANT, thoroughly experienced, required immediately for quick cash retail family and dispensing business; qualification not essential; must be accurate and neat dispenser; state age, salary (outdoor), and all particulars, with last references in first letter, Saville & Sons, York.

JUNIOR Assistant, able to undertake N.H.I. Dispensing, required immediately; reply by letter in first instance, stating age, height, salary required, experience and references. The Prosser Roberts Co., Pharmaceutical Chemists, 323 Walworth Rd., London, S.E.

L EWIS & BURROWS have a vacancy for a good Dispenser for the West-End; outdoors. Apply 146, Holborn Bars, E.C.

M ANAGER for Retail department required; qualified; active; trustworthy; reliable. State references, salary required, experience, age, etc., to C. A. Critchley & Co., Ltd., Pharmaceutical Chemist, 10, King William Street, Blackburn.

Q UALIFIED Dispenser wanted at once; experienced, active, and good Prescriber; abstainer preferred. Reply, stating age and salary required, 143/14, Office of this Paper.

Q UALIFIED Assistant wanted at once; young and energetic; one with knowledge of Optics and Photography preferred. Apply, with full particulars, age, experience, salary required, giving references, Smalleys, Chemists, Ipswich. Applications not answered in four days declined with thanks.

Q UALIFIED, lady or gentleman, wanted to cover and do N.H.I. Advertiser turning drug stores into limited company; applicants must take shares in the company; would suit elderly gentleman; light, easy duties, and living accommodation. 144/23, Office of this Paper.

U NQUALIFIED energetic Assistant, good Prescriber, willing and capable; outdoors; comfortable permanency to suitable man. Wells, Chemist, Maidstone.

U NQUALIFIED Junior Assistant; must be of good appearance and address, smart Salesman and Window Dresser. State age, height, experience, and salary—required. Edward Raper, Ltd., 75, West Street, Brighton.

W ANTED, part-time help several evenings a week; male; unqualified; Central London. Apply 141/36, Office of this Paper.

W ANTED, qualified Chemist, able to take charge; age not over 30, used to quick cash trade and N.H.I. dispensing. Send photo if possible, age, height, references, lowest salary, and all particulars to Bates, 21, Rookery Street, Wednesfield, Staffs.

WHOLESALE.

A REPRESENTATIVE required for London and suburbs for the sale of Perfumery, high-class Toilet Soaps and Toilet Preparations. Applications will only be considered from keen salesmen with thorough knowledge of trade and a live connection. Reply, with full particulars as to age, experience, etc., to 14/457, Office of this Paper.

A DVERTISEMENT Copy Writer.—London Wholesale Chemists require Assistant Copy Writer in advertising department; Pharmaceutical experience essential. Replies must state age, experience, and salary required. 15/477, Office of this Paper.

C LINICAL THERMOMETERS AND "RECORD" SYRINGES.—Wanted, Commission Agent, with wholesale and retail connection, to handle above lines on commission; state terms and territory. 141/27, Office of this Paper.

D RUG Trade, Wholesale.—Traveller wanted by Edinburgh firm of Wholesale Druggists to represent them in Glasgow and Southern Counties of Scotland; must be experienced and have live connection. Applicants to give details of age, experience, actual journeys covered and how often, also approximate estimate of drugs turnover. State salary desired, also give copies of references. 15/476, Office of this Paper.

F OREWOMAN, capable and experienced, required to supervise large staff of girls in Perfumery and Toilet Finishing Department of important provincial firm; must be used to highest class work; energy and considerable organising capacity essential. Full details of experience and remuneration required to "X. Y. Z.," 15/482, Office of this Paper.

L ADY Traveller, now calling on Chemists and Stores, to handle a new popular speciality as a side line on commission. 15/480, Office of this Paper.

L OONDON Representative wanted on liberal commission basis by country firm with established connection there. Only men with good experience and reliable references need apply. 143/11, Office of this Paper.

QUALIFIED Chemist wanted by leading firm of manufacturing chemists. Must have had experience in fruit essences. Apply, 15/487, Office of this Paper.

REPRESENTATIVE or Agent for the South-Western Counties of England, resident in the area, required by Manufacturing Chemists with good established connection; an additional agency for non-competitive line, such as Drugs, not objected to. 15/483, Office of this Paper.

REPRESENTATIVE for the South Coast required for the sale of Perfumery, high-class Toilet Soaps, and Toilet Preparations; preferential consideration will be given to those who have worked the ground and are well known; applicants should give the fullest particulars in their first letter. 15/484, Office of this Paper.

REPRESENTATIVES required for London and Provinces, with established connections amongst large wholesale dealers in Surgical, Domestic and Mechanical Rubber Goods; good commission and contribution towards expenses offered. Reply with full particulars to 141/28, Office of this Paper.

REQUIRED in January next, by a leading London firm of Manufacturing Chemists, a thoroughly efficient Lady Book-keeper; must be an experienced accountant, and able to take charge of a set of ledgers without supervision; liberal and progressive salary. 15/481, Office of this Paper.

TRAVELLERS wanted to sell Drugs on commission; must have good connection among Chemists and Perfumers, for both London and provincial ground; state area covered and particulars in confidence. Reply, 136/28, Office of this Paper.

TRAVELLERS wanted to sell a Cough Remedy to Chemists on commission. Give particulars of area (not London), nature of other lines carried, etc. 143/13, Office of this Paper.

TRAVELLERS wanted, calling on Oil and Colour, General Hardware, and Ironmongers, to sell a well-known "Hand Soap Paste" on commission. 15/490, Office of this Paper.

WANTED, experienced Traveller to sell well-known brand of Tooth Paste; salary and commission. P.C.B. 76/5, Office of this Paper.

WANTED, experienced Tablet Maker; preference given to a disabled ex-Service man. John Bell, Hills & Lucas, Ltd., Oxford Works, Tower Bridge Road, S.E.1.

WANTED, Salesman-Traveller, already calling on Chemists, Fancy and Novelty shops, to introduce as side line new Advertised Article of real interest to women. Liberal commission to trade and traveller. Send particulars of territory to Box 144, Dorland Agency, Ltd., 16, Regent Street, S.W.1.

WHOLESALE House (Drugs, Sundries, Packed Goods, Tablets, etc., etc.), require a Traveller for the East Riding of Yorkshire. State age, experience, and remuneration suggested. 15/489, Office of this Paper.

[Colonial, Indian and Foreign.]

SOUTH AMERICA.—A responsible company having many branches in South America is open to represent Chemical Manufacturers desiring direct representation. Apply 14/450, Office of this Paper.

A MISSIONARY HOSPITAL IN CHINA requires the services of a young man as Dispenser and Business Manager. A good opening for one desirous of spending his life in Christian service in China. Free Churchman preferred. All information will be given on application to Home Secretary, L.M.S., 48, Broadway, Westminster, London, S.W.1. State age and business experience.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.A.A.—EXPERIENCED Assistant, 39, 5 ft. 10½ in.; single; just disengaged; 24 years' London and provincial experience; highest references; permanency only—"Aspirin," 168, Heathfield Rd., Handsworth, Birmingham.

A.A.A., UNQUALIFIED, 27, married, requires permanency; 9 years' Dispensing, Counter, Photographic and Window-dressing experience; excellent London and West of England references; disengaged. Apply 143/8, Office of this Paper.

A.A.A., QUALIFIED, 32, married, abstainer, requires immediately post as Manager or Assistant, permanency; 16 years' all-round experience; moderate salary; excellent references. Prothero, 37, Castlemere Street, Rochdale.

A.A.A.—QUALIFIED; Manager or Senior; tall; married; excellent all-round experience; temporary or permanent. "Advertiser," 190, Burrage Road, S.E.18.

A.A.A.—ASSISTANT; unqualified; 28; competent Dispenser and Counterman, good Window-dresser; disengaged. Apply to "W. S. M.," 31, North Villas, Camden Square, London, N.W.

A.A.—COMPETENT, unqualified Assistant; single; quick and accurate Dispenser, good Counterman and Photographer; disengaged. Apply 144/30, Office of this Paper.

A.B.C.—QUICK turnover worker desires change; coast town preferred; qualified; can handle clients smartly; good Dispenser and Photographer; "one busy day a week shop" useless to me. "Topaz," 145/10, Office of this Paper.

A CAPABLE, willing, qualified man offers himself for engagement; single; abstainer. 141/10, Office of this Paper.

A CAPABLE, qualified, energetic, elderly, single man requires Managership; good Counterman, Dispenser, Prescriber; reliable references. Address, "Pyro," Temperance Hotel, 80, Clerkenwell Road, E.C.

A CHEMIST, 22; 7 years' experience, Dispensing, Counter and Photography, disengaged. Parker, 41, Gordon Street, Colne, Lancashire.

A COMPETENT unqualified Assistant; rapid and accurate Dispenser, good Counterman, Photographer and Window-dresser. "Chemicus," Ilversden, Wickham Avenue, Bexhill-on-Sea.

A QUALIFIED man requires post, Manager or Assistant; 26; tall; excellent references; single; efficient. 144/20, Office of this Paper.

A BSTALLER, qualified Manager; tall; reliable; varied experience Photography; 8 years last post. Parkinson, 13, Hartington Road, St. Margarets, Twickenham.

A CTIVE, reliable, honest, experienced man desires permanent berth; 20 years in the trade; would give highest satisfaction; unqualified; disengaged. Fairweather, 286, Kingsland Road, London, E.8.

A CTIVE, experienced Manager, 37, view succession or Partnership with elderly Pharmacist wishing to retire soon; capital £1,000. Write 143/38, Office of this Paper.

A DVERTISER, thoroughly reliable and experienced, open for engagement, temporary, permanent, or stock-taking; West of England preferred; well recommended; reasonable terms. "R. S. F.," 32, Rolle Street, Exmouth.

A S Assistant in Retail Pharmacy, 26; married; 4 years' war service; educated Grammar School, Cambridge; languages, French, German, Latin; fully trained in Pharmacy; taking qualifying exams. M.L. 2360/22, Office of this Paper.

A S Assistant, 22; 3½ years' experience, Retail. M.L. 76972, Office of this Paper.

A SSISTANT, 27; married; 2 years' war service; sound experience as Assistant Dispenser and Dresser; willing to take any post. M.L. 75280, Office of this Paper.

A SSISTANT or Manager; qualified; tall; 35; 10 years' West-End experience. "Statim," 49, Elizabeth Street, Belgravia, S.W.

A SSISTANT; unqualified; single; 22 years' London and suburban varied experience; honest, active, sober. "Chemicus," 31, Kingsley Road, Maidstone, Kent.

A SSISTANT, L.P.S.I., 25, desiring to qualify in Optics, seeks engagement in any City where lectures are given. 143/25, Office of this Paper.

A SSISTANT, 25, unqualified, single, Dispensing, Counter, Photography, desires post London. Williams, c/o Day, Bells Hill, Stoke Poges, Bucks.

A SSISTANT, 40; married; good Counterman, Dispenser, Photography; excellent experience, Stores and otherwise. Williams, 22, Mervan Road, Brixton, S.W.2.

A SSISTANT, 26; ex-officer; 4 years' war service; excellent salesman; photography; country preferred. Apply, "H.," 5, Chadwick Street, Blackpool.

A SSISTANT or Branch Manager.—Progressive man, 35, capable of increasing photographic business, knowledge of optics, good prescriber, counterman, and salesman; experienced in veterinary work; would like opportunity for advancement; Locum or permanency. Bellad, 9, Montrose Terrace, Houndiscombe, Plymouth.

ASSISTANT or Manager; qualified; 27; experienced Counter, Dispensing, Photography; disengaged. "Chemist," 124, Skipton Road, Colne, Lancashire.

ASSISTANT, 32, wants relief work from December 2 until Christmas; experienced in all branches. "Statim," The Pharmacy, Birchington-on-Sea.

ASSISTANT; unqualified; 37; tall; used to sole charge; just disposed of own business; permanency; married; sound experience; not afraid of work; salary £4. "Energy," 144/14, Office of this Paper.

BIRMINGHAM or London.—Dispenser (Hall) seeks post; good experience (including N.H.I., Book-keeping, etc.); Chemist or Doctor. Miss M. C. Ashford, Gillingham, Beccles.

CAPABLE young lady, Minor, requires position; excellent all-round experience; moderate salary; free January 1. Reply 145/3, Office of this Paper.

CHEMIST recommends his daughter, age 20, as Assistant in good-class business (indoors); good Dispenser, Counterwork and Window-dresser; smart and excellent disposition. "Feminus," 143/10, Office of this Paper.

COMPETENT Assistant; unqualified; tall; 38; gentlemanly; Counter, Dispensing, Window-dresser, Photo, etc.; permanency; London only. "Statim," 23, Doughty Street, Holborn, W.C.

CUMBERLAND.—Lady, Hall, 6 years' experience, desires post with Chemist, Doctor, in Hospital or Clerical work. 137/27, Office of this Paper.

DISENGAGED.—Doctor's Dispenser (male); accustomed to minor surgery; state salary. 140/18, Office of this Paper.

DISENGAGED.—Competent, experienced Assistant, Counter, Dispensing, Photographic, satisfaction guaranteed, open for Locum Xmas season. "Reliable," 239, Camberwell New Road, S.E.5.

DISPENSER, Lady, desires post with Doctor, or as Assistant to Chemist; thorough experience in dispensing and retail. 142/35, Office of this Paper.

DISPENSER—Book-keeper (Hall), qualified, seven years' experience, desires post, Doctor or Institution; excellent testimonials and references. Miss Millard, 2, West Square, Maldon, Essex.

DISPENSER.—Qualified young lady, fluent in French, anxious to gain experience; institution preferred; London or near. P.C.B. 76/4, Office of this Paper.

DISPENSER'S Assistant, 26, married; educated L.C.C. School of Pharmacy; war service, 2½ years; Drug Stores experience. M.L. 4877, Office of this Paper.

DISPENSING, alternate afternoon or evening; West-End preferred; salary immaterial; well recommended. Write, Miss "K.," c/o Yates' Library, 79, Wigmore Street, London, W.

EVENING, 3 or 4 week, experience, Dispensing and Counter; central, Victoria preferred. W. B., 78, Alexandra Road, Croydon.

EVENING work, Croydon and district; disengaged after 5 p.m.; good all-round experience. "Rhei," Brightbee House, London Road, Croydon.

EXPERIENCED Dispenser; mornings free; Institution or Doctor. P.C.B. 74/26, Office of this Paper.

EXPERIENCED Assistant, male, qualified, seeks temporary or part-time engagement in Bath and Bristol district. 145/25, Office of this Paper.

IMMEDIATELY.—Locum or otherwise; unqualified, but thoroughly capable all round; highly recommended. "A.," 241, Seven Sisters Road, N.4.

JUNIOR, first-class experience, excellent references, desires post, home counties. Write, 143/7, Office of this Paper.

JUNIOR, 4 years' experience, tall, good General and Photographic knowledge, passed Matriculation, desires post with opportunity evening classes; Leicester, Nottingham, or Birmingham preferred, but not essential. S. Dickinson, High Street, Towcester.

LADY, Hall, 8 years' experience, Dispensing and Counter, knowledge of Book-keeping, desires post, Chemist or Doctor. "M. A. C.," 12, St. Mary's Road, Newton Heath, Manchester.

LADY Dispenser (Hall) requires post anywhere; Book-keeping; good testimonials; one year's experience; small salary. 65, Mayfair Avenue, Ilford, Essex.

LADY Dispenser, Hall, desires post with Doctor or Institution. Keen, 29, Knowle Road, Bristol.

LOCUM or permanency; qualified; 15 years' all-round experience; disengaged; moderate salary. Jamieson, 39, Pepys Road, S.E.14.

LOCUM work undertaken. Hepworth, Chemist, 22, Beacon Road, Loughborough.

LOCUM, qualified (elderly). Address, "J. W. W.," 90 Walliscote Road, Weston-super-Mare.

MANAGER or Locum, 50; qualified; Prescriber, Dispensing Photographics; satisfactory references; London or country disengaged. "Pharmacist," 38, Wendover Road, Harlesden, N.W.

MANAGER, or otherwise, 45; qualified; best experience and references. "H. S.," 169, Hemingford Road, London, N.

MANAGER, 33, married, qualified 1910, 8 years' management, requires permanent position in first-class business; London or South of England; first-class experience and references; disengaged. Marshall, Sandown, Tate Road, Sutton Surrey.

MANAGER; unqualified; thoroughly capable; good Counter man; smart Salesman; excellent references. "Adept" (P.C.B. 76/8), Office of this Paper.

PART-TIME.—Advertiser seeks position January as part-time Assistant; good experience and references, dispensing an counter; 5 ft. 11 in., age 23. "Scot," 142/21, Office of this Paper.

PHARMACIST, male, experienced, requires part-time job mornings or afternoons; London district; Institution, Shop or Doctor's. 144/26, Office of this Paper.

QUALIFIED, 55s. or offer; elderly; well experienced at branches. Walker, 277, Holloway Road, N.7.

QUALIFIED, 26; good-class Retail, Dispensing and Photographic experience. S. Swaits, Heysham, Morecambe.

QUALIFIED lady desires post; excellent Dispensing and Retail experience; good references; London preferred. "E. G. W.," 50, Albion Road, Swiss Cottage, N.W.6.

QUALIFIED Assistant, speaking French; best experience; out doors. Apply, P.C.B. 75/39, Office of this Paper.

QUALIFIED, disengaged, requires permanency or Locum; excellent Retail and Dispensing experience; state salary Roberts, 30, York Street, Oswestry, Salop.

QUALIFIED; experienced; 32; town, country; Optics; disengaged. Anthony, Abercynon, Glam.

SENIOR, Manager or Dispenser, 45, unqualified, West-End experience, really capable and reliable man, seeks re-engagement; used to control; disengaged shortly. "Aspirin," 144/370, Office of this Paper.

SMART Junior, age 19, tall, 5 years' all-round experience; good references; moderate salary. Hughes, 8, Milton Street, Bootle, Liverpool.

SURGEON'S daughter seeks position as Dispenser and Book-keeper; thoroughly experienced; town or country; Apoth Hall. "M.," 152, Kensington Park Road, W.11.

THURSDAYS.—Qualified Chemist wishes to undertake Thursday evening work (London). "Iovis," 143/19, Office of this Paper.

UNQUALIFIED Assistant, keen Dispenser, N.H.I., efficient Photography experience, Shop, and Window-dresser; 10 years' front counter. "Homœopathic," 12a, Jackson Street, The Groves, York.

YOUNG qualified man, disengaged, knowledge Photography recent testimonials, single, desires situation where good experience; Wholesale or Retail. Barker, 66, Oxford Road, Waterloo, Liverpool.

YOUNG lady Dispenser with secretarial training seeks post Shorthand, Typing, Book-keeping, French, German. Hunt 11, Canterbury Road, London, S.W.9.

55/- WEEKLY.—Unqualified Assistant, age 22, height 5 ft. 8 in., requires situation; West of England preferred; capable Dispenser; good worker, expert in Dark-room Photography; 7 years' good-class experience. Luxton, c/o Messrs Rossiter, Chemists, Tiverton.

Price lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

WHOLESALE.

ADVERTISER, 31; Works, Retail, Laboratory experience; packed medicinals, etc., preserves, beverages, fine chemicals, oilets, any capacity. "Control," c/o 87, Crane Avenue, Isleworth, Mx.

ADVERTISER, young, trustworthy, seeks position in Wholesale, or as Representative; Toilet Goods experience; financial interest considered. "Z., 145/13, Office of this Paper.

CHEMIST and Metallurgist (Honours Chem.), M.Sc., ex-Captain, 1914-1919, Dardanelles, Egypt, France; pre-war Chief Chemist and Process Controller for 10 years in U.S.A.; past 2½ years Chief Chemist and Metallurgist works in London; disengaged owing to reduction of staff. M.L. 71755, Office of this Paper.

DRUG Department or Wholesale House.—Capable man; disengaged; 20 years' departmental stores experience; thorough knowledge Patents, Surgical; Sundries, Counter, Orders, Stock-keeping; used to control; town or country. R. Tyler, 84, Monthele Road, Wandsworth Common, S.W.

DRUGS, Chemicals, Medicals.—Thorough Retail and Wholesale experience; expert Checker, Dispenser, Pill-maker, Counter Salesman. John, 7, Elm Tree Road, N.W.8.

EX-OFFICER; 5 years' war service; educated Public School; sound experience, Chemistry, Bacteriology in Water and Sewerage; willing to take any post. M.L. 13515, Office of this Paper.

FIRST-CLASS Fitter, Limbs, Orthopaedic, General Surgical, desires position; accustomed work alone; accuracy assured; state salary; particulars. 143/17, Office of this Paper.

GENTLEMAN, 45, tall, long Retail experience, also Wholesale and Manufacturing, capable man, good organiser, used to control, thorough knowledge of Drug trade, seeks position with good house. "O. K.," 144/37, Office of this Paper.

INSIDE, outside, or both; ability to introduce new and saleable lines; large connection in London. Write, making appointment, "Chemist," 93, Babington Road, Streatham.

METALLURGICAL Chemist (N.F.), 22; Public School education; Associate in N.F. Metallurgy; post in Laboratory of works, or is willing to take any post suitable to qualifications. M.L. 28279, Office of this Paper.

MIDLANDS.—Representative with sound connection amongst Chemists open to represent reliable house or agencies; resident Birmingham. 142/37, Office of this Paper.

REPRESENTATIVE.—First-class knowledge of Drug and all allied trades; qualified Chemist, with excellent record and references, extensive provincial connection, now disengaged, and open to represent reliable house. 145/14, Office of this Paper.

REPRESENTATIVE, with first-class experience and connection, London and Midlands, carrying packed goods, requires additional non-competitive lines, on commission basis. 15/488, Office of this Paper.

REPRESENTATIVE, energetic, good appearance, address; previously travelled London, South; good Retail experience. Morgan, 79, Cecil Street, Manchester, S.

RESEARCH or Works' Chemist, 24, B.Sc., Lond. (Honours); good knowledge of French, Physics and Maths.; 3 years' war service; willing to take any position to suit qualifications. M.L. 4467/22, Office of this Paper.

RESEARCH.—Ex-officer, 25, single, 4 years' war service, University education, B.A., desires post connected with Chemistry (research if possible). M.L. 38240, Office of this Paper.

SHORTHAND-TYPIST, 18; 3 years Chemical trade; knowledge French; £2 5s. Write 145/6, Office of this Paper.

TOILET.—Young man seeks situation; 20 years' good all-round Laboratory experience; age 34 years; also take charge if necessary. P.C.B. 75/38, Office of this Paper.

TO MFG. CHEMISTS or EQUIPMENT MFGS.—Doctor, ex-Service and G.P., seeks Post, traveller or indoor. Box N. 44, Hopwood's, 170, Fleet Street, E.C.4.

WOMAN, Major, 6 years' experience, analysis, essential oils, fals, B.P. assays, etc., wants post with good prospects. 143/29, Office of this Paper.

[Colonial, Indian and Foreign.]

FRANCE.—Pharmacist; young; excellent references; West-End Dispensing and Counter experience; knowledge of French Pharmacy and Specialities. 136/30, Office of this Paper.

SOUTH AFRICA or other Colony.—Qualified, 24, single, desires post as Assistant, early next year; excellent references; 2 to 3 years' agreement; what offers? "Oxo," 142/40, Office of this Paper.

PHARMACIST, returning South Africa December, desires position good-class Pharmacy; coast preferred; opportunity succession or Partnership considered. "Durban," 144/11, Office of this Paper.

THE
NATIONAL DRUG & CHEMICAL UNION

(Incorporating the National Association of Chemists' Assistants)

AIDS AND PROTECTS

those employed in all Branches of the Drug Trade.

(Public Services—Retail—Wholesale.)

WRITE FOR PARTICULARS—H. R. NIGHTINGALE, M.P.S.

General Secretary,

149 Newington Causeway, LONDON, S.E.1

MISCELLANEOUS.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262, Old Street, London, E.C.1.

SHOP FITTINGS.—Large quantity of Showcases, Fittings ready for use; Silent Salesman, All-glass Counters, Dispensing Screens, Oak Window Fittings, etc. PHILIP JOSEPHS & SONS, LTD., 93, Old Street, London, E.C.1.

LIMITED COMPANY FORMATION.

Before placing your Company in other hands, get my quotation. I specialise in Chemist and tradesmen private companies and quote inclusive charge; no extras. A. B. Slack, 180, Garston Old Road, Liverpool.

MACK'S LEDGERS, 20s. set; 3-year stiff Cash Book, 6s.; 4-year new Ledger, 5 columns, 14s.; 12s. 6d. 2-year set; Cash Book, limp, 4s. 6d.; Ledger, stiff, 8s., with new stock-taking and I.R. insets to prove 25% gross profit; approval on receipt cheque; refunded less 1s. if returned. Any book sent. Mack-Ivor, 45, Hightown, Crewe.

EXCHANGE COLUMN.

2d. per word: Minimum 2s.

FOR DISPOSAL.

40 SHOP-SOILED TRUSSES, R. L. & D: Particulars, 144/19, Office of this Paper.

DENTAL LATHE, Chemist, Vulcanisers, Forceps, etc.; bargains. Hickman, 5, Abbotts Road, Southall.

2 LB. COUNTER SCALES, best make, 80s.; Dispensing Scales, slide pillar, 65s. Tomlinson's, Bond Street, Birmingham.

PERSONAL WEIGHING MACHINE, list price £5, 42s.; case 12 Dental Forceps, worth £5, 45s. 72, Atheldene Road, S.W.18.

DOUBLE-ACTION TINCTURE PRESS, 1 gallon (Pindar), complete, perfect condition; £5, or nearest. Whysall & Son, Grantham.

WHAT OFFERS? 15 lbs. Sol. Essence Black Currant; 5 lbs. Sol. Essence Kola; 9 lbs. Sol. Essence Orange. Turner, Standish Street, Burnley.

CHEMISTS' FITTINGS, mahogany, perfect condition, suit shop 13 x 13 ft. Full particulars, apply to O'Connor's Hotel, Swinford, Co. Mayo.

OPTICAL TRIAL CASE, 40 pairs Spherical, 24 Cylindrical Lenses, Prisms, etc., 3-cell frame, price £10. "S.", 98, Greyhound Lane, Streatham, S.W.16.

GAS-HEATED, WELL-LINED DRYING OVEN (Richmond), suitable cooking infants' food, capacity 9 stones, 3 trays, as new, £17 10s., or nearest offer. Whysall & Son, Grantham.

WANTED.

PHARMACEUTICAL Books wanted; send priced list. Gower, Bookseller, 41, Voltaire Road, Clapham.

RADIUM SALT, pure of Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W.9.

10 or 12 ft. Drug Fitting Shelves and Shop Rounds, Dispensing Screen; wall fitting; particular, lowest price. Pennington, Chemist, Thurcroft, Rotherham.

SECOND-HAND Fixtures and Fittings, including Nests of Drawers, for Chemist's Shop. Forward full particulars to 15/479, Office of this Paper.

REVISED PRICES OF
TRUFOOD
The supreme Milk



On and after December 1st next, the prices of "Trufood" will be reduced, and the following rates will become effective:

	PRICE TO THE PUBLIC	PRICE TO THE CHEMIST
10 oz. size	2/- per tin	18/6 per doz.
20 ,,	4/- ,,	37/- ,,
36 ,,	7/- ,,	64/8 ,,



TRUFOOD LIMITED
 THE CREAMERIES, WRENBURY, CHESHIRE

London Office
 Lever House, Blackfriars, E.C.4

T.F. 59-29c



EAU DE COLOGNE - MORNÏ

distilled from Bigarade Neroli petals of exceptional fragrance. It is the ideal Toilet Water for sick-room use; a refreshing addition to the washing water; indispensable when travelling or on a sea-voyage; and one of the few perfumes a man permits himself to use. ✱ ✱ ✱

MORNÏ EAU DE COLOGNE

is not only the Cologne of surpassing beauty of odour, but is also actually lower in price and more profitable than the German brands.

Tall square-stoppered bottles -	4-oz.	8-oz.	16-oz.	32-oz.
Tall square sprinkler bottles -	2-oz.	4-oz.	6-oz.	8-oz.
Flat sprinkler bottles - - -			1-oz.	2-oz.
Wickered bottles - - -	small	medium	large	

The MornÏ Fine Perfumery Products are an adornment to the Highest Class Pharmacy and attract the best type of Customer.

Extensively advertised ☐ Artistic SHOWCARDS and Descriptive PAMPHLETS on request.

Apply for Terms and Prices to

MORNÏ FRÈRES, LIMITED
6 New Burlington Street, LONDON, W. 1

REVILO



ORIGIN OF TITLE

"Pale hands I loved beside the Shalimar
Pale hands, pink tipped, like Lotus buds that float
On those cool waters where we used to dwell."

—Kashmiri Song : Indian Love Lyrics.

*The well-known Winter
Necessity now available in*

THE
"Golden Morn"
SERIES

Crème Shalimar

for SOFT WHITE HANDS

In
TUBES

Retail

1/3

Stopped

JARS

Retail

2/6

Wholesale
Discount

33 1/3%

PROFIT

50%

on Cost.

P

ACKED in collapsible tubes, each in elegant embossed carton, the get-up worthily maintains the finest Dubarry traditions.

ALTHOUGH widely advertised, Crème Shalimar owes its present popularity to the personal recommendations of those who use it.

When ordering specify "GOLDEN MORN" if this perfume is required.
The other odours are "A BUNCH OF VIOLETS," "GARDEN OF KAMA,"
"CHANSON SANS PAROLES," "PERSEPHONE."

